



ГОСУДАРСТВЕННЫЙ СТАНДАРТ  
СОЮЗА ССР

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# ПРЕОБРАЗОВАТЕЛИ ТЕРМОЭЛЕКТРИЧЕСКИЕ

НОМИНАЛЬНЫЕ СТАТИЧЕСКИЕ ХАРАКТЕРИСТИКИ  
ПРЕОБРАЗОВАНИЯ

ГОСТ 3044—84  
{СТ СЭВ 1059—85}

Издание официальное

35 коп.

ГОСУДАРСТВЕННЫЙ КОМИТЕТ СССР ПО УПРАВЛЕНИЮ  
КАЧЕСТВОМ ПРОДУКЦИИ И СТАНДАРТАМ  
Москва

Прежде чем пользоваться ГОСТ 3044—84 «Преобразователи термоэлектрические. Номинальные статические характеристики преобразования» внесите следующие исправления:

| В каком месте                                              | Напечатано       | Должно быть      |
|------------------------------------------------------------|------------------|------------------|
| Таблица 2, графа «Т. э. д. с., мВ, для температуры 2°C»;   | 7,924            | 7,942            |
| графа «Т. э. д. с., мВ, для температуры 3°C»;              | 8,839            | 8,639            |
| графа «Т. э. д. с., мВ, для температуры 9°C»;              | 23,863           | 23,683           |
| графа «Т. э. д. с., мВ, для температуры 6°C».              | 82,719<br>92,035 | 28,719<br>29,035 |
| Таблица 3, графа «Т. э. д. с., мВ, для температуры 9°C»;   | 17,644           | 17,664           |
| графа «Т. э. д. с., мВ, для температуры 3°C».              | 22,833           | 22,883           |
| Таблица 11а, графа «Т. э. д. с., мВ, для температуры 5°C». | 13,983           | 13,993           |

ГОСТ 3044—84 «Преобразователи термоэлектрические. Номинальные статические характеристики преобразования». М., Изд-во стандартов, 1989

**ПРЕОБРАЗОВАТЕЛИ ТЕРМОЭЛЕКТРИЧЕСКИЕ****ГОСТ****Номинальные статические характеристики  
преобразования****3044—84**Thermoelectric converters. Nominal static graduation  
tables**(СТ СЭВ 1059—85)**

ОКП 42 1150

Срок действия с 01.04.86

до 01.01.92

в части преобразователей типов ТХА, ТХК, ТМК

с 01.01.87

**Несоблюдение стандарта преследуется по закону**

1. Настоящий стандарт распространяется на термоэлектрические преобразователи с металлическими электродами и устанавливает номинальные статические характеристики (НСХ) преобразования термопар, т. е. зависимость термоэлектродвижущей силы (т. э. д. с.) термопар от температуры рабочего конца при температуре свободных концов  $0^{\circ}\text{C}$ .

НСХ преобразования термопар термоэлектрических преобразователей составлены в соответствии с МПТШ-68 по ГОСТ 8.157—75.

Степень соответствия настоящего стандарта СТ СЭВ 1059—85 приведена в приложении 7а.

**(Измененная редакция, Изм. № 2).**

2. Типы термоэлектрических преобразователей, условные обозначения НСХ преобразования термопар термоэлектрических преобразователей, диапазоны измеряемых термопар при длительном и кратковременном применении должны соответствовать приведенным в табл. 1.

3. Расчет пределов допускаемых отклонений т. э. д. с. термопар термоэлектрических преобразователей в температурном эквиваленте от номинального значения следует проводить по формулам, указанным в обязательном приложении 1.

1—3. **(Измененная редакция, Изм. № 1).**

4. Режим кратковременного применения должен быть указан в стандартах или технических условиях на термоэлектрические преобразователи конкретных типов в зависимости от условий их эксплуатации.

5. НСХ преобразования термопар термоэлектрических преобразователей в зависимости от диапазона температур должны соответствовать приведенным в табл. 2—9, 9а—12а.

НСХ преобразования ВР (А)-2 и ВР (А)-3 в диапазоне температур 1800—2500°C приведены в приложениях 2 и 3.

НСХ преобразования ВР (А)-1, в диапазоне температур 2500—2800°C приведена в справочном приложении 4.

Аппроксимирующие полиномы НСХ преобразования термопар термоэлектрических преобразователей приведены в справочном приложении 7.

**(Измененная редакция, Изм. № 1, 2).**

6. **(Исключен, Изм. № 1).**

7. По требованию потребителя допускается изготавливать термоэлектрические преобразователи с номинальными статическими характеристиками преобразования, отличными от установленных настоящим стандартом.

**(Введен дополнительно, Изм. № 2).**

Таблица 1

| Тип термо-<br>электриче-<br>ских пре-<br>образова-<br>телей | Условное обоз-<br>начение номи-<br>нальных стати-<br>ческих характе-<br>ристик преоб-<br>разования | Материал термоэлектрода                     |                                                                  | Диапазон из-<br>меряемых<br>температур<br>при дли-<br>тельном при-<br>менении, °С | Предельная<br>температура<br>при кратко-<br>временном<br>применении,<br>°С |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------|
|                                                             |                                                                                                    | положительного                              | отрицательного                                                   |                                                                                   |                                                                            |
| ТВР                                                         | ВР (А)-1<br>ВР (А)-2<br>ВР (А)-3                                                                   | Сплав вольфрам-рений ВР 5<br>(95% W+5% Re)  | Сплав вольфрам-рений ВР20<br>(80% W+20% Re)                      | 0—2200<br>0—1800<br>0—1800                                                        | 2500                                                                       |
| ТПР                                                         | ПР (В)                                                                                             | Сплав платинородий ПР-30<br>(70% Pt+30% Rh) | Сплав платинородий ПР-6<br>(94% Pt+6% Rh)                        | 300—1600                                                                          | 1800                                                                       |
| ТПП                                                         | ПП (S)                                                                                             | Сплав платинородий ПР-10<br>(90% Pt+10% Rh) | Платина Пл Т (Pt)                                                | 0—1300                                                                            | 1600                                                                       |
|                                                             | ПП (R)                                                                                             | Сплав платинородий ПР-13<br>(87% Pt+13% Rh) |                                                                  | 0—1300                                                                            | 1600                                                                       |
| ТХА                                                         | ХА (К)                                                                                             | Сплав хромель Т НХ9,5<br>(90,5% Ni+9,5% Cr) | Сплав алюмель НМц<br>АК2-2-1 (94,5% Ni+<br>+5,5% Al, Si, Mn, Co) | Минус 200—<br>плюс 1000                                                           | 1300                                                                       |
| ТХК                                                         | ХК (L)                                                                                             |                                             | Сплав копель МНМц 43—<br>0,5 (56% Cu+44% Ni)                     | Минус 200—<br>плюс 600                                                            | 800                                                                        |
|                                                             | ХК (E)                                                                                             |                                             | Сплав константан (55%<br>Cu+45% Ni, Mn, Fe)                      | Минус 200—<br>плюс 700                                                            | 900                                                                        |
| ТМК                                                         | МК (M)                                                                                             | Медь Мl (Cu)                                | Сплав копель МНМц 43—<br>0,5 (56% Cu+44% Ni)                     | Минус 200—<br>плюс 100                                                            | 100                                                                        |
|                                                             | МК (T)                                                                                             |                                             | Сплав константан (55%<br>Cu+45% Ni, Mn, Fe)                      | Минус 200—<br>плюс 400                                                            | 400                                                                        |
| ТЖК                                                         | ЖК (J)                                                                                             | Железо (Fe)                                 |                                                                  | Минус 200—<br>плюс 700                                                            | 900                                                                        |

Примечание. Химический состав материалов термоэлектродов ориентировочный.

## Тип ТВР

## Номинальная статическая характеристика преобразования ВР (А)-1

| Температура<br>рабочего<br>конца, °С | Т. э. д. с., мВ, для температуры, °С |       |       |       |       |       |       |       |       |       |
|--------------------------------------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                      | 0                                    | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     |
| 0                                    | 0,000                                | 0,012 | 0,024 | 0,036 | 0,048 | 0,060 | 0,072 | 0,085 | 0,097 | 0,109 |
| 10                                   | 0,121                                | 0,134 | 0,146 | 0,158 | 0,171 | 0,183 | 0,196 | 0,208 | 0,221 | 0,233 |
| 20                                   | 0,246                                | 0,258 | 0,271 | 0,284 | 0,296 | 0,309 | 0,322 | 0,335 | 0,348 | 0,360 |
| 30                                   | 0,373                                | 0,386 | 0,399 | 0,412 | 0,425 | 0,438 | 0,451 | 0,464 | 0,477 | 0,490 |
| 40                                   | 0,504                                | 0,517 | 0,530 | 0,543 | 0,556 | 0,570 | 0,583 | 0,596 | 0,610 | 0,623 |
| 50                                   | 0,637                                | 0,650 | 0,663 | 0,677 | 0,690 | 0,704 | 0,718 | 0,731 | 0,745 | 0,758 |
| 60                                   | 0,772                                | 0,786 | 0,799 | 0,813 | 0,827 | 0,841 | 0,855 | 0,868 | 0,882 | 0,896 |
| 70                                   | 0,910                                | 0,924 | 0,938 | 0,952 | 0,966 | 0,980 | 0,994 | 1,008 | 1,022 | 1,036 |
| 80                                   | 1,050                                | 1,064 | 1,079 | 1,093 | 1,107 | 1,121 | 1,135 | 1,150 | 1,164 | 1,178 |
| 90                                   | 1,193                                | 1,207 | 1,221 | 1,236 | 1,250 | 1,265 | 1,279 | 1,293 | 1,308 | 1,322 |
| 100                                  | 1,337                                | 1,352 | 1,366 | 1,381 | 1,395 | 1,410 | 1,425 | 1,439 | 1,454 | 1,469 |
| 110                                  | 1,483                                | 1,498 | 1,513 | 1,528 | 1,542 | 1,557 | 1,572 | 1,587 | 1,602 | 1,617 |
| 120                                  | 1,632                                | 1,646 | 1,661 | 1,676 | 1,691 | 1,706 | 1,721 | 1,736 | 1,751 | 1,766 |
| 130                                  | 1,781                                | 1,796 | 1,812 | 1,827 | 1,842 | 1,857 | 1,872 | 1,887 | 1,902 | 1,918 |
| 140                                  | 1,933                                | 1,948 | 1,963 | 1,979 | 1,994 | 2,009 | 2,025 | 2,040 | 2,055 | 2,071 |
| 150                                  | 2,086                                | 2,101 | 2,117 | 2,132 | 2,148 | 2,163 | 2,178 | 2,194 | 2,209 | 2,225 |
| 160                                  | 2,240                                | 2,256 | 2,272 | 2,287 | 2,303 | 2,318 | 2,334 | 2,349 | 2,365 | 2,381 |
| 170                                  | 2,396                                | 2,412 | 2,428 | 2,443 | 2,459 | 2,475 | 2,490 | 2,506 | 2,522 | 2,538 |
| 180                                  | 2,553                                | 2,569 | 2,585 | 2,601 | 2,617 | 2,632 | 2,648 | 2,664 | 2,680 | 2,696 |
| 190                                  | 2,712                                | 2,728 | 2,743 | 2,759 | 2,775 | 2,791 | 2,807 | 2,823 | 2,839 | 2,855 |
| 200                                  | 2,871                                | 2,887 | 2,903 | 2,919 | 2,935 | 2,951 | 2,967 | 2,983 | 2,999 | 3,015 |
| 210                                  | 3,032                                | 3,048 | 3,064 | 3,080 | 3,096 | 3,112 | 3,128 | 3,144 | 3,161 | 3,177 |
| 220                                  | 3,193                                | 3,209 | 3,225 | 3,242 | 3,258 | 3,274 | 3,290 | 3,306 | 3,323 | 3,339 |
| 230                                  | 3,355                                | 3,372 | 3,388 | 3,404 | 3,420 | 3,437 | 3,453 | 3,469 | 3,486 | 3,502 |
| 240                                  | 3,518                                | 3,535 | 3,551 | 3,568 | 3,584 | 3,600 | 3,617 | 3,633 | 3,650 | 3,666 |
| 250                                  | 3,682                                | 3,699 | 3,715 | 3,732 | 3,748 | 3,765 | 3,781 | 3,798 | 3,814 | 3,831 |
| 260                                  | 3,847                                | 3,864 | 3,880 | 3,897 | 3,913 | 3,930 | 3,946 | 3,963 | 3,979 | 3,996 |

| Температура<br>рабочего<br>конца, °C | Т. э. д. с., мВ, для температуры, °C |       |       |       |       |       |       |       |       |       |
|--------------------------------------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                      | 0                                    | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     |
| 270                                  | 4,012                                | 4,029 | 4,046 | 4,062 | 4,079 | 4,095 | 4,112 | 4,129 | 4,145 | 4,162 |
| 280                                  | 4,178                                | 4,195 | 4,212 | 4,228 | 4,245 | 4,262 | 4,278 | 4,295 | 4,312 | 4,328 |
| 290                                  | 4,345                                | 4,362 | 4,378 | 4,395 | 4,412 | 4,428 | 4,445 | 4,462 | 4,479 | 4,495 |
| 300                                  | 4,512                                | 4,529 | 4,545 | 4,562 | 4,579 | 4,596 | 4,612 | 4,629 | 4,646 | 4,663 |
| 310                                  | 4,680                                | 4,696 | 4,713 | 4,730 | 4,747 | 4,763 | 4,780 | 4,797 | 4,814 | 4,831 |
| 320                                  | 4,848                                | 4,864 | 4,881 | 4,898 | 4,915 | 4,932 | 4,949 | 4,965 | 4,982 | 4,999 |
| 330                                  | 5,016                                | 5,033 | 5,050 | 5,067 | 5,083 | 5,100 | 5,117 | 5,134 | 5,151 | 5,168 |
| 340                                  | 5,185                                | 5,202 | 5,218 | 5,235 | 5,252 | 5,269 | 5,286 | 5,303 | 5,320 | 5,337 |
| 350                                  | 5,354                                | 5,371 | 5,388 | 5,404 | 5,421 | 5,438 | 5,455 | 5,472 | 5,489 | 5,506 |
| 360                                  | 5,523                                | 5,540 | 5,557 | 5,574 | 5,591 | 5,608 | 5,625 | 5,642 | 5,659 | 5,676 |
| 370                                  | 5,693                                | 5,710 | 5,727 | 5,744 | 5,761 | 5,778 | 5,794 | 5,811 | 5,828 | 5,845 |
| 380                                  | 5,862                                | 5,879 | 5,896 | 5,913 | 5,930 | 5,947 | 5,964 | 5,981 | 5,998 | 6,015 |
| 390                                  | 6,032                                | 6,049 | 6,066 | 6,083 | 6,100 | 6,117 | 6,135 | 6,152 | 6,169 | 6,186 |
| 400                                  | 6,203                                | 6,220 | 6,237 | 6,254 | 6,271 | 6,288 | 6,305 | 6,322 | 6,339 | 6,356 |
| 410                                  | 6,373                                | 6,390 | 6,407 | 6,424 | 6,441 | 6,458 | 6,475 | 6,492 | 6,509 | 6,526 |
| 420                                  | 6,543                                | 6,560 | 6,577 | 6,594 | 6,611 | 6,628 | 6,646 | 6,663 | 6,680 | 6,697 |
| 430                                  | 6,714                                | 6,731 | 6,748 | 6,765 | 6,782 | 6,799 | 6,816 | 6,833 | 6,850 | 6,867 |
| 440                                  | 6,884                                | 6,901 | 6,918 | 6,935 | 6,952 | 6,970 | 6,987 | 7,004 | 7,021 | 7,038 |
| 450                                  | 7,055                                | 7,072 | 7,089 | 7,106 | 7,123 | 7,140 | 7,157 | 7,174 | 7,191 | 7,208 |
| 460                                  | 7,225                                | 7,242 | 7,260 | 7,277 | 7,294 | 7,311 | 7,328 | 7,345 | 7,362 | 7,379 |
| 470                                  | 7,396                                | 7,413 | 7,430 | 7,447 | 7,464 | 7,481 | 7,498 | 7,515 | 7,532 | 7,549 |
| 480                                  | 7,567                                | 7,584 | 7,601 | 7,618 | 7,635 | 7,652 | 7,669 | 7,686 | 7,703 | 7,720 |
| 490                                  | 7,737                                | 7,754 | 7,771 | 7,788 | 7,805 | 7,822 | 7,839 | 7,856 | 7,873 | 7,890 |
| 500                                  | 7,908                                | 7,925 | 7,942 | 7,959 | 7,976 | 7,993 | 8,010 | 8,027 | 8,044 | 8,061 |
| 510                                  | 8,078                                | 8,095 | 8,112 | 8,129 | 8,146 | 8,163 | 8,180 | 8,197 | 8,214 | 8,231 |
| 520                                  | 8,248                                | 8,265 | 8,282 | 8,299 | 8,316 | 8,333 | 8,350 | 8,367 | 8,384 | 8,401 |
| 530                                  | 8,418                                | 8,435 | 8,452 | 8,469 | 8,486 | 8,503 | 8,520 | 8,537 | 8,554 | 8,571 |
| 540                                  | 8,588                                | 8,605 | 8,622 | 8,639 | 8,656 | 8,673 | 8,690 | 8,707 | 8,724 | 8,741 |
| 550                                  | 8,758                                | 8,775 | 8,792 | 8,809 | 8,826 | 8,843 | 8,860 | 8,877 | 8,894 | 8,911 |
| 560                                  | 8,928                                | 8,945 | 8,962 | 8,979 | 8,996 | 9,013 | 9,030 | 9,047 | 9,064 | 9,081 |
| 570                                  | 9,098                                | 9,115 | 9,132 | 9,149 | 9,165 | 9,182 | 9,199 | 9,216 | 9,233 | 9,250 |

| Температура<br>рабочего<br>конца, °С | Т. э. д. $\Delta$ , мВ, для температуры, °С |        |        |        |        |        |        |        |        |        |
|--------------------------------------|---------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                      | 0                                           | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
| 580                                  | 9,267                                       | 9,284  | 9,301  | 9,318  | 9,335  | 9,352  | 9,369  | 9,386  | 9,403  | 9,419  |
| 590                                  | 9,436                                       | 9,453  | 9,470  | 9,487  | 9,504  | 9,521  | 9,538  | 9,555  | 9,572  | 9,589  |
| 600                                  | 9,605                                       | 9,622  | 9,639  | 9,656  | 9,673  | 9,690  | 9,707  | 9,724  | 9,741  | 9,757  |
| 610                                  | 9,774                                       | 9,791  | 9,808  | 9,825  | 9,842  | 9,859  | 9,876  | 9,892  | 9,909  | 9,926  |
| 620                                  | 9,943                                       | 9,960  | 9,977  | 9,994  | 10,010 | 10,027 | 10,044 | 10,061 | 10,078 | 10,095 |
| 630                                  | 10,111                                      | 10,128 | 10,145 | 10,162 | 10,179 | 10,196 | 10,212 | 10,229 | 10,246 | 10,263 |
| 640                                  | 10,280                                      | 10,296 | 10,313 | 10,330 | 10,347 | 10,364 | 10,380 | 10,397 | 10,414 | 10,431 |
| 650                                  | 10,448                                      | 10,464 | 10,481 | 10,498 | 10,515 | 10,531 | 10,548 | 10,565 | 10,582 | 10,599 |
| 660                                  | 10,615                                      | 10,632 | 10,649 | 10,666 | 10,682 | 10,699 | 10,716 | 10,733 | 10,749 | 10,766 |
| 670                                  | 10,783                                      | 10,799 | 10,816 | 10,833 | 10,850 | 10,866 | 10,883 | 10,900 | 10,916 | 10,933 |
| 680                                  | 10,950                                      | 10,967 | 10,983 | 11,000 | 11,017 | 11,033 | 11,050 | 11,067 | 11,083 | 11,100 |
| 690                                  | 11,117                                      | 11,134 | 11,150 | 11,167 | 11,184 | 11,200 | 11,217 | 11,234 | 11,250 | 11,267 |
| 700                                  | 11,283                                      | 11,300 | 11,317 | 11,333 | 11,350 | 11,367 | 11,383 | 11,400 | 11,417 | 11,433 |
| 710                                  | 11,450                                      | 11,466 | 11,483 | 11,500 | 11,516 | 11,533 | 11,550 | 11,566 | 11,583 | 11,599 |
| 720                                  | 11,616                                      | 11,632 | 11,649 | 11,666 | 11,682 | 11,699 | 11,715 | 11,732 | 11,749 | 11,765 |
| 730                                  | 11,782                                      | 11,798 | 11,815 | 11,831 | 11,848 | 11,864 | 11,881 | 11,898 | 11,914 | 11,931 |
| 740                                  | 11,947                                      | 11,964 | 11,980 | 11,997 | 12,013 | 12,030 | 12,046 | 12,063 | 12,079 | 12,096 |
| 750                                  | 12,112                                      | 12,129 | 12,145 | 12,162 | 12,178 | 12,195 | 12,211 | 12,228 | 12,244 | 12,261 |
| 760                                  | 12,277                                      | 12,294 | 12,310 | 12,327 | 12,343 | 12,359 | 12,376 | 12,392 | 12,409 | 12,425 |
| 770                                  | 12,442                                      | 12,458 | 12,475 | 12,491 | 12,507 | 12,524 | 12,540 | 12,557 | 12,573 | 12,589 |
| 780                                  | 12,606                                      | 12,622 | 12,639 | 12,655 | 12,671 | 12,688 | 12,704 | 12,721 | 12,737 | 12,753 |
| 790                                  | 12,770                                      | 12,786 | 12,802 | 12,819 | 12,835 | 12,852 | 12,868 | 12,884 | 12,901 | 12,917 |
| 800                                  | 12,933                                      | 12,950 | 12,966 | 12,982 | 12,999 | 13,015 | 13,031 | 13,048 | 13,064 | 13,080 |
| 810                                  | 13,096                                      | 13,113 | 13,129 | 13,145 | 13,162 | 13,178 | 13,194 | 13,210 | 13,227 | 13,243 |
| 820                                  | 13,259                                      | 13,276 | 13,292 | 13,308 | 13,324 | 13,341 | 13,357 | 13,373 | 13,389 | 13,406 |
| 830                                  | 13,422                                      | 13,438 | 13,454 | 13,470 | 13,487 | 13,503 | 13,519 | 13,535 | 13,551 | 13,568 |
| 840                                  | 13,584                                      | 13,600 | 13,616 | 13,632 | 13,649 | 13,665 | 13,681 | 13,697 | 13,713 | 13,729 |
| 850                                  | 13,746                                      | 13,762 | 13,778 | 13,794 | 13,810 | 13,826 | 13,842 | 13,859 | 13,875 | 13,891 |
| 860                                  | 13,907                                      | 13,923 | 13,939 | 13,955 | 13,971 | 13,988 | 14,004 | 14,020 | 14,036 | 14,052 |
| 870                                  | 14,068                                      | 14,084 | 14,100 | 14,116 | 14,132 | 14,148 | 14,164 | 14,181 | 14,197 | 14,213 |
| 880                                  | 14,229                                      | 14,245 | 14,261 | 14,277 | 14,293 | 14,309 | 14,325 | 14,341 | 14,357 | 14,373 |

| Температура<br>рабочего<br>конца, °C | Т. э. д. сс. |        |        |        |
|--------------------------------------|--------------|--------|--------|--------|
|                                      | 0            | 1      | 2      | 3      |
| 890                                  | 14,389       | 14,405 | 14,421 | 14,437 |
| 900                                  | 14,549       | 14,565 | 14,581 | 14,597 |
| 910                                  | 14,708       | 14,724 | 14,740 | 14,756 |
| 920                                  | 14,867       | 14,883 | 14,899 | 14,915 |
| 930                                  | 15,026       | 15,042 | 15,058 | 15,074 |
| 940                                  | 15,184       | 15,200 | 15,216 | 15,232 |
| 950                                  | 15,342       | 15,358 | 15,374 | 15,390 |
| 960                                  | 15,500       | 15,515 | 15,531 | 15,547 |
| 970                                  | 15,657       | 15,672 | 15,688 | 15,704 |
| 980                                  | 15,813       | 15,829 | 15,845 | 15,860 |
| 990                                  | 15,970       | 15,985 | 16,001 | 16,016 |
| 1000                                 | 16,125       | 16,141 | 16,157 | 16,172 |
| 1010                                 | 16,281       | 16,296 | 16,312 | 16,327 |
| 1020                                 | 16,436       | 16,451 | 16,467 | 16,482 |
| 1030                                 | 16,590       | 16,606 | 16,621 | 16,637 |
| 1040                                 | 16,744       | 16,760 | 16,775 | 16,790 |
| 1050                                 | 16,898       | 16,913 | 16,929 | 16,944 |
| 1060                                 | 17,051       | 17,066 | 17,082 | 17,097 |
| 1070                                 | 17,204       | 17,219 | 17,234 | 17,249 |
| 1080                                 | 17,356       | 17,371 | 17,386 | 17,402 |
| 1090                                 | 17,508       | 17,523 | 17,538 | 17,553 |
| 1100                                 | 17,659       | 17,674 | 17,689 | 17,704 |
| 1110                                 | 17,810       | 17,825 | 17,840 | 17,855 |
| 1120                                 | 17,960       | 17,975 | 17,990 | 18,005 |
| 1130                                 | 18,110       | 18,125 | 18,140 | 18,155 |
| 1140                                 | 18,260       | 18,275 | 18,290 | 18,305 |
| 1150                                 | 18,409       | 18,424 | 18,438 | 18,453 |
| 1160                                 | 18,557       | 18,572 | 18,587 | 18,602 |
| 1170                                 | 18,705       | 18,720 | 18,735 | 18,750 |
| 1180                                 | 18,853       | 18,868 | 18,882 | 18,897 |

мВ, для температуры, °С

| 4      | 5      | 6      | 7      | 8      | 9      |
|--------|--------|--------|--------|--------|--------|
| 14,453 | 14,469 | 14,485 | 14,501 | 14,517 | 14,533 |
| 14,613 | 14,629 | 14,645 | 14,661 | 14,676 | 14,692 |
| 14,772 | 14,788 | 14,804 | 14,820 | 14,836 | 14,852 |
| 14,931 | 14,947 | 14,963 | 14,979 | 14,994 | 15,010 |
| 15,089 | 15,105 | 15,121 | 15,137 | 15,153 | 15,169 |
| 15,248 | 15,263 | 15,279 | 15,295 | 15,311 | 15,327 |
| 15,405 | 15,421 | 15,437 | 15,453 | 15,468 | 15,484 |
| 15,563 | 15,578 | 15,594 | 15,610 | 15,625 | 15,641 |
| 15,720 | 15,735 | 15,751 | 15,767 | 15,782 | 15,798 |
| 15,876 | 15,892 | 15,907 | 15,923 | 15,938 | 15,954 |
| 16,032 | 16,048 | 16,063 | 16,079 | 16,094 | 16,110 |
| 16,188 | 16,203 | 16,219 | 16,234 | 16,250 | 16,265 |
| 16,343 | 16,358 | 16,374 | 16,389 | 16,405 | 16,420 |
| 16,498 | 16,513 | 16,529 | 16,544 | 16,559 | 16,575 |
| 16,652 | 16,667 | 16,683 | 16,698 | 16,714 | 16,729 |
| 16,806 | 16,821 | 16,837 | 16,852 | 16,867 | 16,883 |
| 16,959 | 16,975 | 16,990 | 17,005 | 17,020 | 17,036 |
| 17,112 | 17,127 | 17,143 | 17,158 | 17,173 | 17,189 |
| 17,265 | 17,280 | 17,295 | 17,310 | 17,326 | 17,341 |
| 17,417 | 17,432 | 17,447 | 17,462 | 17,477 | 17,493 |
| 17,568 | 17,584 | 17,599 | 17,614 | 17,629 | 17,644 |
| 17,720 | 17,735 | 17,750 | 17,765 | 17,780 | 17,795 |
| 17,870 | 17,885 | 17,900 | 17,915 | 17,930 | 17,945 |
| 18,020 | 18,035 | 18,050 | 18,065 | 18,080 | 18,095 |
| 18,170 | 18,185 | 18,200 | 18,215 | 18,230 | 18,245 |
| 18,319 | 18,334 | 18,349 | 18,364 | 18,379 | 18,394 |
| 18,468 | 18,483 | 18,498 | 18,513 | 18,528 | 18,542 |
| 18,617 | 18,631 | 18,646 | 18,661 | 18,676 | 18,690 |
| 18,764 | 18,779 | 18,794 | 18,809 | 18,823 | 18,838 |
| 18,912 | 18,926 | 18,941 | 18,956 | 18,970 | 18,985 |

| Температура<br>рабочего<br>конца, °C | Т. э. д. с., мВ, для температуры, °C |        |        |        |        |        |        |        |        |        |
|--------------------------------------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                      | 0                                    | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
| 1190                                 | 19,000                               | 19,015 | 19,029 | 19,044 | 19,059 | 19,073 | 19,088 | 19,102 | 19,117 | 19,132 |
| 1200                                 | 19,146                               | 19,161 | 19,176 | 19,190 | 19,205 | 19,219 | 19,234 | 19,249 | 19,263 | 19,278 |
| 1210                                 | 19,292                               | 19,307 | 19,322 | 19,336 | 19,351 | 19,365 | 19,380 | 19,394 | 19,409 | 19,423 |
| 1220                                 | 19,438                               | 19,453 | 19,467 | 19,482 | 19,496 | 19,511 | 19,525 | 19,540 | 19,554 | 19,569 |
| 1230                                 | 19,583                               | 19,598 | 19,612 | 19,626 | 19,641 | 19,655 | 19,670 | 19,684 | 19,699 | 19,713 |
| 1240                                 | 19,728                               | 19,742 | 19,756 | 19,771 | 19,785 | 19,800 | 19,814 | 19,829 | 19,843 | 19,857 |
| 1250                                 | 19,872                               | 19,886 | 19,900 | 19,915 | 19,929 | 19,944 | 19,958 | 19,972 | 19,987 | 20,001 |
| 1260                                 | 20,015                               | 20,030 | 20,044 | 20,058 | 20,073 | 20,087 | 20,101 | 20,115 | 20,130 | 20,144 |
| 1270                                 | 20,158                               | 20,173 | 20,187 | 20,201 | 20,215 | 20,230 | 20,244 | 20,258 | 20,272 | 20,287 |
| 1280                                 | 20,301                               | 20,315 | 20,329 | 20,343 | 20,358 | 20,372 | 20,386 | 20,400 | 20,414 | 20,429 |
| 1290                                 | 20,443                               | 20,457 | 20,471 | 20,485 | 20,500 | 20,514 | 20,528 | 20,542 | 20,556 | 20,570 |
| 1300                                 | 20,584                               | 20,599 | 20,613 | 20,627 | 20,641 | 20,655 | 20,669 | 20,683 | 20,697 | 20,711 |
| 1310                                 | 20,725                               | 20,739 | 20,754 | 20,768 | 20,782 | 20,796 | 20,810 | 20,824 | 20,838 | 20,852 |
| 1320                                 | 20,866                               | 20,880 | 20,894 | 20,908 | 20,922 | 20,936 | 20,950 | 20,964 | 20,978 | 20,992 |
| 1330                                 | 21,006                               | 21,020 | 21,034 | 21,048 | 21,062 | 21,076 | 21,090 | 21,104 | 21,117 | 21,131 |
| 1340                                 | 21,145                               | 21,159 | 21,173 | 21,187 | 21,201 | 21,215 | 21,229 | 21,243 | 21,257 | 21,270 |
| 1350                                 | 21,284                               | 21,298 | 21,312 | 21,326 | 21,340 | 21,354 | 21,367 | 21,381 | 21,395 | 21,409 |
| 1360                                 | 21,423                               | 21,437 | 21,450 | 21,464 | 21,478 | 21,492 | 21,506 | 21,519 | 21,533 | 21,547 |
| 1370                                 | 21,561                               | 21,574 | 21,588 | 21,602 | 21,616 | 21,629 | 21,643 | 21,657 | 21,671 | 21,684 |
| 1380                                 | 21,698                               | 21,712 | 21,725 | 21,739 | 21,753 | 21,767 | 21,780 | 21,794 | 21,808 | 21,821 |
| 1390                                 | 21,835                               | 21,849 | 21,862 | 21,876 | 21,889 | 21,903 | 21,917 | 21,930 | 21,944 | 21,958 |
| 1400                                 | 21,971                               | 21,985 | 21,998 | 22,012 | 22,026 | 22,039 | 22,053 | 22,066 | 22,080 | 22,093 |
| 1410                                 | 22,107                               | 22,121 | 22,134 | 22,148 | 22,161 | 22,175 | 22,188 | 22,202 | 22,215 | 22,229 |
| 1420                                 | 22,242                               | 22,256 | 22,269 | 22,283 | 22,296 | 22,310 | 22,323 | 22,337 | 22,350 | 22,364 |
| 1430                                 | 22,377                               | 22,391 | 22,404 | 22,417 | 22,431 | 22,444 | 22,458 | 22,471 | 22,485 | 22,498 |
| 1440                                 | 22,511                               | 22,525 | 22,538 | 22,552 | 22,565 | 22,578 | 22,592 | 22,605 | 22,618 | 22,632 |
| 1450                                 | 22,645                               | 22,658 | 22,672 | 22,685 | 22,698 | 22,712 | 22,725 | 22,738 | 22,752 | 22,765 |
| 1460                                 | 22,778                               | 22,792 | 22,805 | 22,818 | 22,831 | 22,845 | 22,858 | 22,871 | 22,884 | 22,898 |
| 1470                                 | 22,911                               | 22,924 | 22,937 | 22,951 | 22,964 | 22,977 | 22,990 | 23,003 | 23,017 | 23,030 |
| 1480                                 | 23,043                               | 23,056 | 23,069 | 23,083 | 23,096 | 23,109 | 23,122 | 23,135 | 23,148 | 23,162 |

| Температура<br>рабочего<br>конца, °C | Т. э. д. с., мВ, для температуры, °C |        |        |        |        |        |        |        |        |        |
|--------------------------------------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                      | 0                                    | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
| 1490                                 | 23,175                               | 23,188 | 23,201 | 23,214 | 23,227 | 23,240 | 23,253 | 23,267 | 23,280 | 23,293 |
| 1500                                 | 23,306                               | 23,319 | 23,332 | 23,345 | 23,358 | 23,371 | 23,384 | 23,397 | 23,410 | 23,423 |
| 1510                                 | 23,436                               | 23,449 | 23,462 | 23,475 | 23,488 | 23,501 | 23,514 | 23,527 | 23,540 | 23,553 |
| 1520                                 | 23,566                               | 23,579 | 23,592 | 23,605 | 23,618 | 23,631 | 23,644 | 23,657 | 23,670 | 23,683 |
| 1530                                 | 23,696                               | 23,709 | 23,722 | 23,735 | 23,748 | 23,760 | 23,773 | 23,786 | 23,799 | 23,812 |
| 1540                                 | 23,825                               | 23,838 | 23,851 | 23,863 | 23,876 | 23,889 | 23,902 | 23,915 | 23,928 | 23,940 |
| 1550                                 | 23,953                               | 23,966 | 23,979 | 23,992 | 24,004 | 24,017 | 23,030 | 24,043 | 24,056 | 24,068 |
| 1560                                 | 24,081                               | 24,094 | 24,107 | 24,119 | 24,132 | 24,145 | 24,158 | 24,170 | 24,183 | 24,196 |
| 1570                                 | 24,209                               | 24,221 | 24,234 | 24,247 | 24,259 | 24,272 | 24,285 | 24,297 | 24,310 | 24,323 |
| 1580                                 | 24,335                               | 24,348 | 24,361 | 24,373 | 24,386 | 24,399 | 24,411 | 24,424 | 24,437 | 24,449 |
| 1590                                 | 24,462                               | 24,474 | 24,487 | 24,500 | 24,512 | 24,525 | 24,537 | 24,550 | 24,562 | 24,575 |
| 1600                                 | 24,588                               | 24,600 | 24,613 | 24,625 | 24,638 | 24,650 | 24,663 | 24,675 | 24,688 | 24,700 |
| 1610                                 | 24,713                               | 24,725 | 24,738 | 24,750 | 24,763 | 24,775 | 24,788 | 24,800 | 24,813 | 24,825 |
| 1620                                 | 24,838                               | 24,850 | 24,862 | 24,875 | 24,887 | 24,900 | 24,912 | 24,925 | 24,937 | 24,949 |
| 1630                                 | 24,962                               | 24,974 | 24,987 | 24,999 | 25,011 | 25,024 | 25,036 | 25,048 | 25,061 | 25,073 |
| 1640                                 | 25,085                               | 25,098 | 25,110 | 25,122 | 25,135 | 25,147 | 25,159 | 25,172 | 25,184 | 25,196 |
| 1650                                 | 25,209                               | 25,221 | 25,233 | 25,245 | 25,258 | 25,270 | 25,282 | 25,295 | 25,307 | 25,319 |
| 1660                                 | 25,331                               | 25,343 | 25,356 | 25,368 | 25,380 | 25,392 | 25,405 | 25,417 | 25,429 | 25,441 |
| 1670                                 | 25,453                               | 25,466 | 25,478 | 25,490 | 25,502 | 25,514 | 25,526 | 25,539 | 25,551 | 25,563 |
| 1680                                 | 25,575                               | 25,587 | 25,599 | 25,611 | 25,623 | 25,636 | 25,648 | 25,660 | 25,672 | 25,684 |
| 1690                                 | 25,696                               | 25,708 | 25,720 | 25,732 | 25,744 | 25,756 | 25,768 | 25,780 | 25,792 | 25,804 |
| 1700                                 | 25,816                               | 25,828 | 25,841 | 25,853 | 25,865 | 25,877 | 25,889 | 25,901 | 25,912 | 25,924 |
| 1710                                 | 25,936                               | 25,948 | 25,960 | 25,972 | 25,984 | 25,996 | 26,008 | 26,020 | 26,032 | 26,044 |
| 1720                                 | 26,056                               | 26,068 | 26,080 | 26,092 | 26,104 | 26,115 | 26,127 | 26,139 | 26,151 | 26,163 |
| 1730                                 | 26,175                               | 26,187 | 26,199 | 26,210 | 26,222 | 26,234 | 26,246 | 26,258 | 26,270 | 26,281 |
| 1740                                 | 26,293                               | 26,305 | 26,317 | 26,329 | 26,340 | 26,352 | 26,364 | 26,376 | 26,388 | 26,399 |
| 1750                                 | 26,411                               | 26,423 | 26,435 | 26,446 | 26,458 | 26,470 | 26,482 | 26,493 | 26,505 | 26,517 |
| 1760                                 | 26,528                               | 26,540 | 26,552 | 26,563 | 26,575 | 26,587 | 26,599 | 26,610 | 26,622 | 26,634 |
| 1770                                 | 26,645                               | 26,657 | 26,668 | 26,680 | 26,692 | 26,703 | 26,715 | 26,727 | 26,738 | 26,750 |
| 1780                                 | 26,761                               | 26,773 | 26,785 | 26,796 | 26,808 | 26,819 | 26,831 | 26,842 | 26,854 | 26,866 |

| Температура<br>рабочего<br>конца, °C | Т. э. д. α, мВ, для температуры, °C |        |        |        |        |        |        |        |        |        |
|--------------------------------------|-------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                      | 0                                   | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
| 1790                                 | 26,877                              | 26,889 | 26,900 | 26,912 | 26,923 | 26,935 | 26,946 | 26,958 | 26,969 | 26,981 |
| 1800                                 | 26,992                              | 27,004 | 27,015 | 27,027 | 27,038 | 27,050 | 27,061 | 27,073 | 27,084 | 27,096 |
| 1810                                 | 27,107                              | 27,118 | 27,130 | 27,141 | 27,153 | 27,164 | 27,175 | 27,187 | 27,198 | 27,210 |
| 1820                                 | 27,221                              | 27,232 | 27,244 | 27,255 | 27,267 | 27,278 | 27,289 | 27,301 | 27,312 | 27,323 |
| 1830                                 | 27,335                              | 27,346 | 27,357 | 27,369 | 27,380 | 27,391 | 27,402 | 27,414 | 27,425 | 27,436 |
| 1840                                 | 27,448                              | 27,459 | 27,470 | 27,481 | 27,493 | 27,504 | 27,515 | 27,526 | 27,538 | 27,549 |
| 1850                                 | 27,560                              | 27,571 | 27,583 | 27,594 | 27,605 | 27,616 | 27,627 | 27,639 | 27,650 | 27,661 |
| 1860                                 | 27,672                              | 27,683 | 27,694 | 27,706 | 27,717 | 27,728 | 27,739 | 27,750 | 27,761 | 27,772 |
| 1870                                 | 27,783                              | 27,795 | 27,806 | 27,817 | 27,828 | 27,839 | 27,850 | 27,861 | 27,872 | 27,883 |
| 1880                                 | 27,894                              | 27,905 | 27,916 | 27,927 | 27,938 | 27,949 | 27,961 | 27,972 | 27,983 | 27,994 |
| 1890                                 | 28,005                              | 28,016 | 28,027 | 28,038 | 28,049 | 28,059 | 28,070 | 28,081 | 28,092 | 28,103 |
| 1900                                 | 28,114                              | 28,125 | 28,136 | 28,147 | 28,158 | 28,169 | 28,180 | 28,191 | 28,202 | 28,213 |
| 1910                                 | 28,223                              | 28,234 | 28,245 | 28,256 | 28,267 | 28,278 | 28,289 | 28,300 | 28,310 | 28,321 |
| 1920                                 | 28,332                              | 28,343 | 28,354 | 28,365 | 28,375 | 28,386 | 28,397 | 28,408 | 28,419 | 28,429 |
| 1930                                 | 28,440                              | 28,451 | 28,462 | 28,472 | 28,483 | 28,494 | 28,505 | 28,515 | 28,526 | 28,537 |
| 1940                                 | 28,548                              | 28,558 | 28,569 | 28,580 | 28,591 | 28,601 | 28,612 | 28,623 | 28,633 | 28,644 |
| 1950                                 | 28,655                              | 28,665 | 28,676 | 28,687 | 28,697 | 28,708 | 28,719 | 28,729 | 28,740 | 28,750 |
| 1960                                 | 28,761                              | 28,772 | 28,782 | 28,793 | 28,803 | 28,814 | 28,825 | 28,835 | 28,846 | 28,856 |
| 1970                                 | 28,867                              | 28,877 | 28,888 | 28,898 | 28,909 | 28,920 | 28,930 | 28,941 | 28,951 | 28,962 |
| 1980                                 | 28,972                              | 28,983 | 28,993 | 29,004 | 29,014 | 29,024 | 29,035 | 29,045 | 29,056 | 29,066 |
| 1990                                 | 29,077                              | 29,087 | 29,098 | 29,108 | 29,118 | 29,129 | 29,139 | 29,150 | 29,160 | 29,170 |
| 2000                                 | 29,181                              | 29,191 | 29,202 | 29,212 | 29,222 | 29,233 | 29,243 | 29,253 | 29,264 | 29,274 |
| 2010                                 | 29,284                              | 29,295 | 29,305 | 29,315 | 29,326 | 29,336 | 29,346 | 29,356 | 29,367 | 29,377 |
| 2020                                 | 29,387                              | 29,398 | 29,408 | 29,418 | 29,428 | 29,438 | 29,449 | 29,459 | 29,469 | 29,479 |
| 2030                                 | 29,490                              | 29,500 | 29,510 | 29,520 | 29,530 | 29,541 | 29,551 | 29,561 | 29,571 | 29,581 |
| 2040                                 | 29,591                              | 29,601 | 29,612 | 29,622 | 29,632 | 29,642 | 29,652 | 29,662 | 29,672 | 29,682 |
| 2050                                 | 29,693                              | 29,703 | 29,713 | 29,723 | 29,733 | 29,743 | 29,753 | 29,763 | 29,773 | 29,783 |
| 2060                                 | 29,793                              | 29,803 | 29,813 | 29,823 | 29,833 | 29,843 | 29,853 | 29,863 | 29,873 | 29,883 |
| 2070                                 | 29,893                              | 29,903 | 29,913 | 29,923 | 29,933 | 29,943 | 29,953 | 29,963 | 29,973 | 29,983 |
| 2080                                 | 29,992                              | 30,002 | 30,012 | 30,022 | 30,032 | 30,042 | 30,052 | 30,062 | 30,072 | 30,081 |

| Температура<br>рабочего<br>конца, °C | Т. э д с., мВ, для температуры, °C |        |        |        |        |        |        |        |        |        |
|--------------------------------------|------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                      | 0                                  | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
| 2090                                 | 30,091                             | 30,101 | 30,111 | 30,121 | 30,131 | 30,140 | 30,150 | 30,160 | 30,170 | 30,180 |
| 2100                                 | 30,189                             | 30,199 | 30,209 | 30,219 | 30,229 | 30,238 | 30,248 | 30,258 | 30,268 | 30,277 |
| 2110                                 | 30,287                             | 30,297 | 30,306 | 30,316 | 30,326 | 30,336 | 30,345 | 30,355 | 30,365 | 30,374 |
| 2120                                 | 30,384                             | 30,394 | 30,403 | 30,413 | 30,423 | 30,432 | 30,442 | 30,451 | 30,461 | 30,471 |
| 2130                                 | 30,480                             | 30,490 | 30,500 | 30,509 | 30,519 | 30,528 | 30,538 | 30,547 | 30,557 | 30,566 |
| 2140                                 | 30,576                             | 30,586 | 30,595 | 30,605 | 30,614 | 30,624 | 30,633 | 30,643 | 30,652 | 30,662 |
| 2150                                 | 30,671                             | 30,681 | 30,690 | 30,700 | 30,709 | 30,719 | 30,728 | 30,737 | 30,747 | 30,756 |
| 2160                                 | 30,766                             | 30,775 | 30,785 | 30,794 | 30,803 | 30,813 | 30,822 | 30,831 | 30,841 | 30,850 |
| 2170                                 | 30,860                             | 30,869 | 30,878 | 30,888 | 30,897 | 30,906 | 30,916 | 30,925 | 30,934 | 30,944 |
| 2180                                 | 30,953                             | 30,962 | 30,971 | 30,981 | 30,990 | 30,999 | 31,009 | 31,018 | 31,027 | 31,036 |
| 2190                                 | 31,046                             | 31,055 | 31,064 | 31,073 | 31,082 | 31,092 | 31,101 | 31,110 | 31,119 | 31,128 |
| 2200                                 | 31,138                             | 31,147 | 31,156 | 31,165 | 31,174 | 31,183 | 31,193 | 31,202 | 31,211 | 31,220 |
| 2210                                 | 31,229                             | 31,238 | 31,247 | 31,256 | 31,265 | 31,274 | 31,284 | 31,293 | 31,302 | 31,311 |
| 2220                                 | 31,320                             | 31,329 | 31,338 | 31,347 | 31,356 | 31,365 | 31,374 | 31,383 | 31,392 | 31,401 |
| 2230                                 | 31,410                             | 31,419 | 31,428 | 31,437 | 31,446 | 31,455 | 31,464 | 31,473 | 31,482 | 31,491 |
| 2240                                 | 31,500                             | 31,509 | 31,517 | 31,526 | 31,535 | 31,544 | 31,553 | 31,562 | 31,571 | 31,580 |
| 2250                                 | 31,589                             | 31,597 | 31,606 | 31,615 | 31,624 | 31,633 | 31,642 | 31,650 | 31,659 | 31,668 |
| 2260                                 | 31,677                             | 31,686 | 31,695 | 31,703 | 31,712 | 31,721 | 31,730 | 31,738 | 31,747 | 31,756 |
| 2270                                 | 31,765                             | 31,773 | 31,782 | 31,791 | 31,800 | 31,808 | 31,817 | 31,826 | 31,834 | 31,843 |
| 2280                                 | 31,852                             | 31,860 | 31,869 | 31,878 | 31,886 | 31,895 | 31,904 | 31,912 | 31,921 | 31,930 |
| 2290                                 | 31,938                             | 31,947 | 31,956 | 31,964 | 31,973 | 31,981 | 31,990 | 31,999 | 31,007 | 32,016 |
| 2300                                 | 32,024                             | 32,033 | 32,041 | 32,050 | 32,059 | 32,067 | 32,076 | 32,084 | 32,093 | 32,101 |
| 2310                                 | 32,110                             | 32,118 | 32,127 | 32,135 | 32,144 | 32,152 | 32,161 | 32,169 | 32,178 | 32,186 |
| 2320                                 | 32,194                             | 32,203 | 32,211 | 32,220 | 32,228 | 32,237 | 32,245 | 32,254 | 32,262 | 32,270 |
| 2330                                 | 32,279                             | 32,287 | 32,295 | 32,304 | 32,312 | 32,321 | 32,329 | 32,337 | 32,346 | 32,354 |
| 2340                                 | 32,362                             | 32,371 | 32,379 | 32,387 | 32,396 | 32,404 | 32,412 | 32,421 | 32,429 | 32,437 |
| 2350                                 | 32,445                             | 32,454 | 32,462 | 32,470 | 32,479 | 32,487 | 32,495 | 32,503 | 32,512 | 32,520 |
| 2360                                 | 32,528                             | 32,536 | 32,545 | 32,553 | 32,561 | 32,569 | 32,577 | 32,586 | 32,594 | 32,602 |
| 2370                                 | 32,610                             | 32,618 | 32,626 | 32,635 | 32,643 | 32,651 | 32,659 | 32,667 | 32,675 | 32,684 |
| 2380                                 | 32,692                             | 32,700 | 32,708 | 32,716 | 32,724 | 32,732 | 32,740 | 32,748 | 32,757 | 32,765 |



## Тип ТВР

## Номинальная статическая характеристика преобразования ВР (А)-2

| Температура<br>рабочего<br>конца, °С | Т. э. д. с., мВ, для температуры, °С |       |       |       |       |       |       |       |       |       |
|--------------------------------------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                      | 0                                    | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     |
| 0                                    | 0,000                                | 0,012 | 0,023 | 0,035 | 0,047 | 0,059 | 0,071 | 0,082 | 0,094 | 0,106 |
| 10                                   | 0,118                                | 0,130 | 0,143 | 0,155 | 0,167 | 0,179 | 0,191 | 0,204 | 0,216 | 0,228 |
| 20                                   | 0,241                                | 0,253 | 0,266 | 0,278 | 0,291 | 0,303 | 0,316 | 0,329 | 0,341 | 0,354 |
| 30                                   | 0,367                                | 0,380 | 0,393 | 0,406 | 0,418 | 0,431 | 0,444 | 0,457 | 0,470 | 0,484 |
| 40                                   | 0,497                                | 0,510 | 0,523 | 0,536 | 0,550 | 0,563 | 0,576 | 0,589 | 0,603 | 0,616 |
| 50                                   | 0,630                                | 0,643 | 0,657 | 0,670 | 0,684 | 0,697 | 0,711 | 0,725 | 0,738 | 0,752 |
| 60                                   | 0,766                                | 0,780 | 0,793 | 0,807 | 0,821 | 0,835 | 0,849 | 0,863 | 0,877 | 0,891 |
| 70                                   | 0,905                                | 0,919 | 0,933 | 0,947 | 0,961 | 0,975 | 0,990 | 1,004 | 1,018 | 1,032 |
| 80                                   | 1,047                                | 1,061 | 1,075 | 1,090 | 1,104 | 1,118 | 1,133 | 1,147 | 1,162 | 1,176 |
| 90                                   | 1,191                                | 1,205 | 1,220 | 1,235 | 1,249 | 1,264 | 1,279 | 1,293 | 1,308 | 1,323 |
| 100                                  | 1,337                                | 1,352 | 1,367 | 1,382 | 1,397 | 1,412 | 1,426 | 1,441 | 1,456 | 1,471 |
| 110                                  | 1,486                                | 1,501 | 1,516 | 1,531 | 1,546 | 1,561 | 1,577 | 1,592 | 1,607 | 1,622 |
| 120                                  | 1,637                                | 1,652 | 1,667 | 1,683 | 1,698 | 1,713 | 1,728 | 1,744 | 1,759 | 1,774 |
| 130                                  | 1,798                                | 1,805 | 1,821 | 1,836 | 1,851 | 1,867 | 1,882 | 1,898 | 1,913 | 1,929 |
| 140                                  | 1,944                                | 1,960 | 1,975 | 1,991 | 2,007 | 2,022 | 2,038 | 2,053 | 2,069 | 2,085 |
| 150                                  | 2,100                                | 2,116 | 2,132 | 2,148 | 2,163 | 2,179 | 2,195 | 2,211 | 2,226 | 2,242 |
| 160                                  | 2,258                                | 2,274 | 2,290 | 2,306 | 2,321 | 2,337 | 2,353 | 2,369 | 2,385 | 2,401 |
| 170                                  | 2,417                                | 2,433 | 2,449 | 2,465 | 2,481 | 2,497 | 2,513 | 2,529 | 2,545 | 2,561 |
| 180                                  | 2,577                                | 2,593 | 2,609 | 2,626 | 2,642 | 2,658 | 2,674 | 2,690 | 2,706 | 2,723 |
| 190                                  | 2,739                                | 2,755 | 2,771 | 2,787 | 2,804 | 2,820 | 2,836 | 2,852 | 2,869 | 2,885 |
| 200                                  | 2,901                                | 2,918 | 2,934 | 2,950 | 2,967 | 2,983 | 2,999 | 3,016 | 3,032 | 3,048 |
| 210                                  | 3,065                                | 3,081 | 3,098 | 3,114 | 3,131 | 3,147 | 3,163 | 3,180 | 3,196 | 3,213 |
| 220                                  | 3,229                                | 3,246 | 3,262 | 3,279 | 3,295 | 3,312 | 3,328 | 3,345 | 3,362 | 3,378 |
| 230                                  | 3,395                                | 3,411 | 3,428 | 3,444 | 3,461 | 3,478 | 3,494 | 3,511 | 3,528 | 3,544 |
| 240                                  | 3,561                                | 3,577 | 3,594 | 3,611 | 3,627 | 3,644 | 3,661 | 3,677 | 3,694 | 3,711 |
| 250                                  | 3,728                                | 3,744 | 3,761 | 3,778 | 3,794 | 3,811 | 3,828 | 3,845 | 3,861 | 3,878 |

| Температура<br>рабочего<br>конца, °С | Т. э. д. с., мВ, для температуры, °С |       |       |       |       |       |       |       |       |       |
|--------------------------------------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                      | 0                                    | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     |
| 260                                  | 3,896                                | 3,912 | 3,929 | 3,945 | 3,962 | 3,979 | 3,996 | 4,013 | 4,029 | 4,046 |
| 270                                  | 4,063                                | 4,080 | 4,097 | 4,114 | 4,130 | 4,147 | 4,164 | 4,181 | 4,198 | 4,215 |
| 280                                  | 4,232                                | 4,248 | 4,265 | 4,282 | 4,299 | 4,316 | 4,333 | 4,350 | 4,367 | 4,384 |
| 290                                  | 4,401                                | 4,418 | 4,434 | 4,451 | 4,468 | 4,484 | 4,502 | 4,519 | 4,536 | 4,553 |
| 300                                  | 4,570                                | 4,587 | 4,604 | 4,621 | 4,638 | 4,655 | 4,672 | 4,689 | 4,706 | 4,723 |
| 310                                  | 4,740                                | 4,757 | 4,774 | 4,791 | 4,808 | 4,825 | 4,842 | 4,859 | 4,876 | 4,893 |
| 320                                  | 4,910                                | 4,927 | 4,944 | 4,961 | 4,978 | 4,995 | 5,012 | 5,029 | 5,046 | 5,063 |
| 330                                  | 5,080                                | 5,097 | 5,115 | 5,132 | 5,149 | 5,166 | 5,183 | 5,200 | 5,217 | 5,234 |
| 340                                  | 5,251                                | 5,268 | 5,285 | 5,302 | 5,319 | 5,337 | 5,354 | 5,371 | 5,388 | 5,405 |
| 350                                  | 5,422                                | 5,439 | 5,456 | 5,473 | 5,490 | 5,508 | 5,525 | 5,542 | 5,559 | 5,576 |
| 360                                  | 5,593                                | 5,610 | 5,627 | 5,645 | 5,662 | 5,679 | 5,696 | 5,713 | 5,730 | 5,747 |
| 370                                  | 5,764                                | 5,782 | 5,799 | 5,816 | 5,833 | 5,850 | 5,867 | 5,884 | 5,902 | 5,919 |
| 380                                  | 5,936                                | 5,953 | 5,970 | 5,987 | 6,005 | 6,022 | 6,039 | 6,056 | 6,073 | 6,090 |
| 390                                  | 6,107                                | 6,125 | 6,142 | 6,159 | 6,176 | 6,193 | 6,210 | 6,228 | 6,245 | 6,262 |
| 400                                  | 6,279                                | 6,296 | 6,313 | 6,331 | 6,348 | 6,365 | 6,382 | 6,399 | 6,416 | 6,434 |
| 410                                  | 6,451                                | 6,463 | 6,485 | 6,502 | 6,520 | 6,537 | 6,554 | 6,571 | 6,588 | 6,605 |
| 420                                  | 6,623                                | 6,640 | 6,657 | 6,674 | 6,691 | 6,708 | 6,726 | 6,743 | 6,760 | 6,777 |
| 430                                  | 6,794                                | 6,812 | 6,829 | 6,846 | 6,863 | 6,880 | 6,897 | 6,915 | 6,932 | 6,949 |
| 440                                  | 6,966                                | 6,983 | 7,001 | 7,018 | 7,035 | 7,052 | 7,069 | 7,086 | 7,104 | 7,121 |
| 450                                  | 7,138                                | 7,155 | 7,172 | 7,190 | 7,207 | 7,224 | 7,241 | 7,258 | 7,275 | 7,293 |
| 460                                  | 7,310                                | 7,327 | 7,344 | 7,361 | 7,378 | 7,396 | 7,413 | 7,430 | 7,447 | 7,464 |
| 470                                  | 7,481                                | 7,499 | 7,516 | 7,533 | 7,550 | 7,567 | 7,585 | 7,602 | 7,619 | 7,636 |
| 480                                  | 7,653                                | 7,670 | 7,688 | 7,705 | 7,722 | 7,739 | 7,756 | 7,773 | 7,791 | 7,808 |
| 490                                  | 7,825                                | 7,842 | 7,859 | 7,876 | 7,893 | 7,911 | 7,928 | 7,945 | 7,962 | 7,979 |
| 500                                  | 7,996                                | 8,014 | 8,031 | 8,048 | 8,065 | 8,082 | 8,099 | 8,116 | 8,134 | 8,151 |
| 510                                  | 8,168                                | 8,185 | 8,202 | 8,219 | 8,236 | 8,254 | 8,271 | 8,288 | 8,305 | 8,322 |
| 520                                  | 8,339                                | 8,356 | 8,374 | 8,391 | 8,408 | 8,425 | 8,442 | 8,459 | 8,476 | 8,493 |
| 530                                  | 8,511                                | 8,528 | 8,545 | 8,562 | 8,579 | 8,596 | 8,613 | 8,630 | 8,647 | 8,665 |
| 540                                  | 8,682                                | 8,699 | 8,716 | 8,733 | 8,750 | 8,767 | 8,784 | 8,801 | 8,819 | 8,836 |
| 550                                  | 8,853                                | 8,870 | 8,887 | 8,904 | 8,921 | 8,938 | 8,955 | 8,972 | 8,989 | 9,007 |

| Температура<br>рабочего<br>конца, °C | Т. э. д. с. мВ, для температуры, °C |        |        |        |        |        |        |        |        |        |
|--------------------------------------|-------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                      | 0                                   | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
| 560                                  | 9,024                               | 9,041  | 9,058  | 9,075  | 9,092  | 9,109  | 9,126  | 9,143  | 9,160  | 9,177  |
| 570                                  | 9,194                               | 9,211  | 9,228  | 9,246  | 9,263  | 9,280  | 9,297  | 9,314  | 9,331  | 9,348  |
| 580                                  | 9,365                               | 9,382  | 9,399  | 9,416  | 9,433  | 9,450  | 9,467  | 9,484  | 9,501  | 9,518  |
| 590                                  | 9,535                               | 9,552  | 9,569  | 9,586  | 9,604  | 9,621  | 9,638  | 9,655  | 9,672  | 9,689  |
| 600                                  | 9,706                               | 9,723  | 9,740  | 9,757  | 9,774  | 9,791  | 9,808  | 9,825  | 9,842  | 9,859  |
| 610                                  | 9,876                               | 9,893  | 9,910  | 9,927  | 9,944  | 9,961  | 9,978  | 9,995  | 10,012 | 10,029 |
| 620                                  | 10,046                              | 10,063 | 10,080 | 10,097 | 10,114 | 10,131 | 10,147 | 10,164 | 10,181 | 10,198 |
| 630                                  | 10,215                              | 10,232 | 10,249 | 10,266 | 10,283 | 10,300 | 10,317 | 10,334 | 10,351 | 10,368 |
| 640                                  | 10,385                              | 10,402 | 10,419 | 10,436 | 10,453 | 10,470 | 10,486 | 10,503 | 10,520 | 10,537 |
| 650                                  | 10,554                              | 10,571 | 10,588 | 10,605 | 10,622 | 10,639 | 10,656 | 10,673 | 10,689 | 10,706 |
| 660                                  | 10,723                              | 10,740 | 10,757 | 10,774 | 10,791 | 10,808 | 10,825 | 10,841 | 10,858 | 10,875 |
| 670                                  | 10,892                              | 10,909 | 10,926 | 10,943 | 10,960 | 10,976 | 10,993 | 11,010 | 11,027 | 11,044 |
| 680                                  | 11,061                              | 11,078 | 11,094 | 11,111 | 11,128 | 11,145 | 11,162 | 11,179 | 11,195 | 11,212 |
| 690                                  | 11,229                              | 11,246 | 11,263 | 11,280 | 11,296 | 11,313 | 11,330 | 11,347 | 11,364 | 11,380 |
| 700                                  | 11,397                              | 11,414 | 11,431 | 11,448 | 11,464 | 11,481 | 11,498 | 11,515 | 11,532 | 11,548 |
| 710                                  | 11,565                              | 11,582 | 11,599 | 11,615 | 11,632 | 11,649 | 11,666 | 11,682 | 11,699 | 11,716 |
| 720                                  | 11,733                              | 11,749 | 11,766 | 11,783 | 11,800 | 11,816 | 11,833 | 11,850 | 11,867 | 11,883 |
| 730                                  | 11,900                              | 11,917 | 11,933 | 11,950 | 11,967 | 11,984 | 12,000 | 12,017 | 12,034 | 12,050 |
| 740                                  | 12,067                              | 12,084 | 12,100 | 12,117 | 12,134 | 12,151 | 12,167 | 12,184 | 12,201 | 12,217 |
| 750                                  | 12,234                              | 12,251 | 12,267 | 12,284 | 12,300 | 12,317 | 12,334 | 12,350 | 12,367 | 12,384 |
| 760                                  | 12,400                              | 12,417 | 12,434 | 12,450 | 12,467 | 12,483 | 12,500 | 12,517 | 12,533 | 12,550 |
| 770                                  | 12,536                              | 12,583 | 12,600 | 12,616 | 12,633 | 12,649 | 12,666 | 12,683 | 12,699 | 12,716 |
| 780                                  | 12,732                              | 12,749 | 12,765 | 12,782 | 12,799 | 12,815 | 12,832 | 12,848 | 12,865 | 12,881 |
| 790                                  | 12,898                              | 12,914 | 12,931 | 12,947 | 12,964 | 12,981 | 12,997 | 13,014 | 13,030 | 13,047 |
| 800                                  | 13,063                              | 13,080 | 13,096 | 13,113 | 13,129 | 13,146 | 13,162 | 13,179 | 13,195 | 13,211 |
| 810                                  | 13,228                              | 13,244 | 13,261 | 13,277 | 13,294 | 13,310 | 13,327 | 13,343 | 13,360 | 13,376 |
| 820                                  | 13,392                              | 13,409 | 13,425 | 13,442 | 13,458 | 13,475 | 13,491 | 13,507 | 13,524 | 13,540 |
| 830                                  | 13,557                              | 13,573 | 13,589 | 13,606 | 13,622 | 13,639 | 13,655 | 13,671 | 13,688 | 13,704 |
| 840                                  | 13,720                              | 13,737 | 13,753 | 13,770 | 13,786 | 13,802 | 13,819 | 13,835 | 13,851 | 13,868 |
| 850                                  | 13,884                              | 13,900 | 13,917 | 13,933 | 13,949 | 13,966 | 13,982 | 13,998 | 14,014 | 14,031 |

Т. э. д. с. мВ, для температуры, °С

| Температура<br>рабочего<br>конца, °С | 0      | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 860                                  | 14,047 | 14,063 | 14,080 | 14,096 | 14,112 | 14,128 | 13,145 | 14,161 | 14,177 | 14,193 |
| 870                                  | 14,210 | 14,226 | 14,242 | 14,258 | 14,275 | 14,291 | 14,307 | 14,323 | 14,340 | 14,356 |
| 880                                  | 14,372 | 14,388 | 14,404 | 14,421 | 14,437 | 14,453 | 14,469 | 14,485 | 14,502 | 14,518 |
| 890                                  | 14,534 | 14,550 | 14,566 | 14,582 | 14,599 | 14,615 | 14,631 | 14,647 | 14,663 | 14,679 |
| 900                                  | 14,695 | 14,712 | 14,728 | 14,744 | 14,760 | 14,776 | 14,792 | 14,808 | 14,824 | 14,840 |
| 910                                  | 14,857 | 14,873 | 14,889 | 14,905 | 14,921 | 14,937 | 14,953 | 14,969 | 14,985 | 15,001 |
| 920                                  | 15,017 | 15,033 | 15,049 | 15,065 | 15,081 | 15,097 | 15,113 | 15,129 | 15,145 | 15,161 |
| 930                                  | 15,177 | 15,193 | 15,209 | 15,225 | 15,241 | 15,257 | 15,273 | 15,289 | 15,305 | 15,321 |
| 940                                  | 15,337 | 15,353 | 15,369 | 15,385 | 15,401 | 15,417 | 15,433 | 15,449 | 15,465 | 15,481 |
| 950                                  | 15,497 | 15,513 | 15,529 | 15,544 | 15,560 | 15,576 | 15,592 | 15,608 | 15,624 | 15,640 |
| 960                                  | 15,656 | 15,671 | 15,687 | 15,703 | 15,719 | 15,735 | 15,751 | 15,767 | 15,782 | 15,798 |
| 970                                  | 15,814 | 15,830 | 15,846 | 15,862 | 15,877 | 15,893 | 15,909 | 15,925 | 15,941 | 15,956 |
| 980                                  | 15,972 | 15,988 | 16,004 | 16,019 | 16,035 | 16,051 | 16,067 | 16,083 | 16,098 | 16,114 |
| 990                                  | 16,130 | 16,145 | 16,161 | 16,177 | 16,193 | 16,208 | 16,224 | 16,240 | 16,255 | 16,271 |
| 1000                                 | 16,287 | 16,303 | 16,318 | 16,334 | 16,350 | 16,365 | 16,381 | 16,397 | 16,412 | 16,428 |
| 1010                                 | 16,444 | 16,459 | 16,475 | 16,490 | 16,506 | 16,522 | 16,537 | 16,553 | 16,568 | 16,584 |
| 1020                                 | 16,600 | 16,615 | 16,631 | 16,646 | 16,662 | 16,678 | 16,693 | 16,709 | 16,724 | 16,740 |
| 1030                                 | 16,755 | 16,771 | 16,786 | 16,802 | 16,818 | 16,833 | 16,849 | 16,864 | 16,880 | 16,895 |
| 1040                                 | 16,911 | 16,926 | 16,942 | 16,957 | 16,973 | 16,988 | 17,003 | 17,019 | 17,034 | 17,050 |
| 1050                                 | 17,065 | 17,081 | 17,096 | 17,112 | 17,127 | 17,142 | 17,158 | 17,173 | 17,189 | 17,204 |
| 1060                                 | 17,220 | 17,235 | 17,250 | 17,266 | 17,281 | 17,296 | 17,312 | 17,327 | 17,343 | 17,358 |
| 1070                                 | 17,373 | 17,389 | 17,404 | 17,419 | 17,435 | 17,450 | 17,465 | 17,481 | 17,496 | 17,511 |
| 1080                                 | 17,526 | 17,542 | 17,557 | 17,572 | 17,588 | 17,603 | 17,618 | 17,633 | 17,649 | 17,664 |
| 1090                                 | 17,679 | 17,694 | 17,710 | 17,725 | 17,740 | 17,755 | 17,771 | 17,786 | 17,801 | 17,816 |
| 1100                                 | 17,831 | 17,847 | 17,862 | 17,877 | 17,892 | 17,907 | 17,923 | 17,938 | 17,953 | 17,968 |
| 1110                                 | 17,983 | 17,998 | 18,013 | 18,029 | 18,044 | 18,059 | 18,074 | 18,089 | 18,104 | 18,119 |
| 1120                                 | 18,134 | 18,149 | 18,165 | 18,180 | 18,195 | 18,210 | 18,225 | 18,240 | 18,255 | 18,270 |
| 1130                                 | 18,285 | 18,300 | 18,315 | 18,330 | 18,345 | 18,360 | 18,375 | 18,390 | 18,405 | 18,420 |
| 1140                                 | 18,435 | 18,450 | 18,465 | 18,480 | 18,495 | 18,510 | 18,525 | 18,540 | 18,555 | 18,570 |
| 1150                                 | 18,585 | 18,600 | 18,615 | 18,630 | 18,645 | 18,660 | 18,675 | 18,689 | 18,704 | 18,719 |

| Температура<br>рабочего<br>конца, °C | Т. э. д. с., мВ, для температуры, °C |        |        |        |        |        |        |        |        |        |
|--------------------------------------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                      | 0                                    | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
| 1160                                 | 18,734                               | 18,749 | 18,764 | 18,779 | 18,794 | 18,809 | 18,823 | 18,838 | 18,853 | 18,868 |
| 1170                                 | 18,883                               | 18,898 | 18,912 | 18,927 | 18,942 | 18,957 | 18,972 | 18,987 | 19,001 | 19,016 |
| 1180                                 | 19,031                               | 19,046 | 19,061 | 19,075 | 19,090 | 19,105 | 19,120 | 19,134 | 19,149 | 19,164 |
| 1190                                 | 19,179                               | 19,193 | 19,208 | 19,223 | 19,238 | 19,252 | 19,267 | 19,282 | 19,296 | 19,311 |
| 1200                                 | 19,326                               | 19,340 | 19,355 | 19,370 | 19,384 | 19,399 | 19,414 | 19,428 | 19,443 | 19,458 |
| 1210                                 | 19,472                               | 19,487 | 19,502 | 19,516 | 19,531 | 19,545 | 19,560 | 19,575 | 19,589 | 29,604 |
| 1220                                 | 19,618                               | 19,633 | 19,648 | 19,662 | 19,677 | 19,691 | 19,706 | 19,720 | 19,735 | 19,750 |
| 1230                                 | 19,764                               | 19,779 | 19,793 | 19,808 | 19,822 | 19,837 | 19,851 | 19,866 | 19,880 | 19,895 |
| 1240                                 | 19,909                               | 19,924 | 19,938 | 19,953 | 19,967 | 19,981 | 19,996 | 20,010 | 20,025 | 20,039 |
| 1250                                 | 20,054                               | 20,068 | 20,083 | 20,097 | 20,111 | 20,126 | 20,140 | 20,155 | 20,169 | 20,183 |
| 1260                                 | 20,198                               | 20,212 | 20,227 | 20,241 | 20,255 | 20,270 | 20,284 | 20,298 | 20,313 | 20,327 |
| 1270                                 | 20,341                               | 20,356 | 20,370 | 20,384 | 20,399 | 20,413 | 20,427 | 20,442 | 20,456 | 20,470 |
| 1280                                 | 20,484                               | 20,499 | 20,513 | 20,527 | 20,542 | 20,556 | 20,570 | 20,584 | 20,599 | 20,613 |
| 1290                                 | 20,627                               | 20,641 | 20,655 | 20,670 | 20,684 | 20,698 | 20,712 | 20,727 | 20,741 | 20,755 |
| 1300                                 | 20,769                               | 20,783 | 20,797 | 20,812 | 20,826 | 20,840 | 20,854 | 20,868 | 20,882 | 20,897 |
| 1310                                 | 20,911                               | 20,925 | 20,939 | 20,953 | 20,967 | 20,981 | 20,995 | 21,009 | 21,024 | 21,038 |
| 1320                                 | 21,052                               | 21,066 | 21,080 | 21,094 | 21,108 | 21,122 | 21,136 | 21,150 | 21,164 | 21,178 |
| 1330                                 | 21,192                               | 21,206 | 21,220 | 21,234 | 21,248 | 21,262 | 21,277 | 21,291 | 21,305 | 21,319 |
| 1340                                 | 21,332                               | 21,346 | 21,360 | 21,374 | 21,388 | 21,402 | 21,416 | 21,430 | 21,444 | 21,458 |
| 1350                                 | 21,472                               | 21,486 | 21,500 | 21,514 | 21,528 | 21,542 | 21,556 | 21,570 | 21,583 | 21,597 |
| 1360                                 | 21,611                               | 21,625 | 21,639 | 21,653 | 21,667 | 21,681 | 21,695 | 21,708 | 21,722 | 21,736 |
| 1370                                 | 21,750                               | 21,764 | 21,778 | 21,791 | 21,805 | 21,819 | 21,833 | 21,847 | 21,861 | 21,874 |
| 1380                                 | 21,888                               | 21,902 | 21,916 | 21,929 | 21,943 | 21,957 | 21,971 | 21,985 | 21,998 | 22,012 |
| 1390                                 | 22,026                               | 22,040 | 22,053 | 22,067 | 22,081 | 22,095 | 22,108 | 22,122 | 22,136 | 22,149 |
| 1400                                 | 22,163                               | 22,177 | 22,190 | 22,204 | 22,218 | 22,232 | 22,245 | 22,259 | 22,273 | 22,286 |
| 1410                                 | 22,300                               | 22,313 | 22,327 | 22,341 | 22,354 | 22,368 | 22,382 | 22,395 | 22,409 | 22,423 |
| 1420                                 | 22,436                               | 22,450 | 22,463 | 22,477 | 22,490 | 22,504 | 22,518 | 22,531 | 22,545 | 22,558 |
| 1430                                 | 22,572                               | 22,585 | 22,599 | 22,613 | 22,626 | 22,640 | 22,653 | 22,667 | 22,680 | 22,694 |
| 1440                                 | 22,707                               | 22,721 | 22,734 | 22,748 | 22,761 | 22,775 | 22,788 | 22,802 | 22,815 | 22,829 |
| 1450                                 | 22,842                               | 22,856 | 22,869 | 22,883 | 22,896 | 22,909 | 22,923 | 22,936 | 22,950 | 22,963 |
| 1460                                 | 22,977                               | 22,990 | 23,003 | 23,017 | 23,030 | 23,044 | 23,057 | 23,070 | 23,084 | 23,097 |
| 1470                                 | 23,110                               | 23,124 | 23,137 | 23,151 | 23,164 | 23,177 | 23,191 | 23,204 | 23,217 | 23,231 |



## Тип ТВР

## Номинальная статическая характеристика преобразования ВР (А)-3

| Температура<br>рабочего<br>конца, °C | Т э. д. с., мВ, для температуры, °C |       |       |       |       |       |       |       |       |       |
|--------------------------------------|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                      | 0                                   | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     |
| 0                                    | 0,000                               | 0,012 | 0,023 | 0,035 | 0,047 | 0,059 | 0,071 | 0,083 | 0,095 | 0,106 |
| 10                                   | 0,119                               | 0,131 | 0,143 | 0,155 | 0,167 | 0,179 | 0,191 | 0,204 | 0,216 | 0,228 |
| 20                                   | 0,240                               | 0,253 | 0,265 | 0,278 | 0,290 | 0,303 | 0,315 | 0,328 | 0,340 | 0,353 |
| 30                                   | 0,366                               | 0,378 | 0,391 | 0,404 | 0,417 | 0,429 | 0,442 | 0,455 | 0,468 | 0,481 |
| 40                                   | 0,494                               | 0,507 | 0,520 | 0,533 | 0,546 | 0,559 | 0,572 | 0,585 | 0,599 | 0,612 |
| 50                                   | 0,625                               | 0,638 | 0,652 | 0,665 | 0,678 | 0,692 | 0,705 | 0,718 | 0,732 | 0,745 |
| 60                                   | 0,759                               | 0,772 | 0,786 | 0,800 | 0,813 | 0,827 | 0,840 | 0,854 | 0,868 | 0,882 |
| 70                                   | 0,895                               | 0,909 | 0,923 | 0,937 | 0,951 | 0,964 | 0,978 | 0,992 | 1,006 | 1,020 |
| 80                                   | 1,034                               | 1,048 | 1,062 | 1,076 | 1,090 | 1,104 | 1,119 | 1,133 | 1,147 | 1,161 |
| 90                                   | 1,175                               | 1,189 | 1,204 | 1,218 | 1,232 | 1,247 | 1,261 | 1,275 | 1,290 | 1,304 |
| 100                                  | 1,318                               | 1,333 | 1,347 | 1,362 | 1,376 | 1,391 | 1,405 | 1,420 | 1,434 | 1,449 |
| 110                                  | 1,464                               | 1,478 | 1,493 | 1,508 | 1,522 | 1,537 | 1,552 | 1,566 | 1,581 | 1,596 |
| 120                                  | 1,611                               | 1,626 | 1,640 | 1,655 | 1,670 | 1,685 | 1,700 | 1,715 | 1,730 | 1,745 |
| 130                                  | 1,760                               | 1,775 | 1,790 | 1,805 | 1,820 | 1,835 | 1,850 | 1,865 | 1,880 | 1,895 |
| 140                                  | 1,910                               | 1,925 | 1,940 | 1,956 | 1,971 | 1,986 | 2,001 | 2,016 | 2,032 | 2,047 |
| 150                                  | 2,062                               | 2,077 | 2,093 | 2,108 | 2,123 | 2,139 | 2,154 | 2,169 | 2,185 | 2,200 |
| 160                                  | 2,216                               | 2,231 | 2,246 | 2,262 | 2,277 | 2,293 | 2,308 | 2,324 | 2,339 | 2,355 |
| 170                                  | 2,370                               | 2,386 | 2,401 | 2,417 | 2,433 | 2,448 | 2,464 | 2,479 | 2,495 | 2,511 |
| 180                                  | 2,526                               | 2,542 | 2,558 | 2,573 | 2,589 | 2,605 | 2,621 | 2,636 | 2,652 | 2,668 |
| 190                                  | 2,684                               | 2,699 | 2,715 | 2,731 | 2,747 | 2,763 | 2,778 | 2,794 | 2,810 | 2,826 |
| 200                                  | 2,842                               | 2,858 | 2,874 | 2,890 | 2,905 | 2,921 | 2,937 | 2,953 | 2,969 | 2,985 |
| 210                                  | 3,001                               | 3,017 | 3,033 | 3,049 | 3,065 | 3,081 | 3,097 | 3,113 | 3,129 | 3,145 |
| 220                                  | 3,161                               | 3,177 | 3,194 | 3,210 | 3,226 | 3,242 | 3,258 | 3,274 | 3,290 | 3,306 |
| 230                                  | 3,322                               | 3,339 | 3,355 | 3,371 | 3,387 | 3,403 | 3,419 | 3,436 | 3,452 | 3,468 |
| 240                                  | 3,484                               | 3,501 | 3,517 | 3,533 | 3,549 | 3,566 | 3,582 | 3,598 | 3,614 | 3,631 |
| 250                                  | 3,647                               | 3,663 | 3,680 | 3,696 | 3,712 | 3,729 | 3,745 | 3,761 | 3,778 | 3,794 |
| 260                                  | 3,810                               | 3,827 | 3,843 | 3,859 | 3,876 | 3,892 | 3,908 | 3,925 | 3,941 | 3,958 |
| 270                                  | 3,974                               | 3,991 | 4,007 | 4,023 | 4,040 | 4,056 | 4,073 | 4,089 | 4,106 | 4,122 |

| Температура<br>рабочего<br>конца, °С | Т. э. д. с., мВ, для температуры, °С |       |       |       |       |       |       |       |       |       |
|--------------------------------------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                      | 0                                    | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     |
| 280                                  | 4,139                                | 4,155 | 4,172 | 4,188 | 4,205 | 4,221 | 4,238 | 4,254 | 4,271 | 4,287 |
| 290                                  | 4,304                                | 4,320 | 4,337 | 4,353 | 4,370 | 4,386 | 4,403 | 4,419 | 4,436 | 4,452 |
| 300                                  | 4,469                                | 4,486 | 4,502 | 4,519 | 4,535 | 4,552 | 4,569 | 4,585 | 4,602 | 4,618 |
| 310                                  | 4,635                                | 4,652 | 4,668 | 4,685 | 4,701 | 4,718 | 4,735 | 4,751 | 4,768 | 4,785 |
| 320                                  | 4,801                                | 4,818 | 4,835 | 4,851 | 4,868 | 4,885 | 4,901 | 4,918 | 4,935 | 4,951 |
| 330                                  | 4,968                                | 4,985 | 5,001 | 5,018 | 5,035 | 5,051 | 5,068 | 5,085 | 5,101 | 5,118 |
| 340                                  | 5,135                                | 5,152 | 5,168 | 5,185 | 5,202 | 5,218 | 5,235 | 5,252 | 5,269 | 5,285 |
| 350                                  | 5,302                                | 5,319 | 5,336 | 5,352 | 5,369 | 5,386 | 5,403 | 5,419 | 5,436 | 5,453 |
| 360                                  | 5,470                                | 5,486 | 5,503 | 5,520 | 5,537 | 5,553 | 5,570 | 5,587 | 5,604 | 5,620 |
| 370                                  | 5,637                                | 5,654 | 5,671 | 5,688 | 5,704 | 5,721 | 5,738 | 5,755 | 5,772 | 5,788 |
| 380                                  | 5,805                                | 5,822 | 5,839 | 5,856 | 5,872 | 5,889 | 5,906 | 5,923 | 5,940 | 5,956 |
| 390                                  | 5,973                                | 5,990 | 6,007 | 6,024 | 6,040 | 6,057 | 6,074 | 6,091 | 6,108 | 6,125 |
| 400                                  | 6,141                                | 6,158 | 6,175 | 6,192 | 6,209 | 6,226 | 6,242 | 6,259 | 6,276 | 6,293 |
| 410                                  | 6,310                                | 6,327 | 6,343 | 6,360 | 6,377 | 6,394 | 6,411 | 6,428 | 6,444 | 6,461 |
| 420                                  | 6,478                                | 6,495 | 6,512 | 6,529 | 6,545 | 6,562 | 6,579 | 6,596 | 6,613 | 6,630 |
| 430                                  | 6,647                                | 6,663 | 6,680 | 6,697 | 6,714 | 6,731 | 6,748 | 6,764 | 6,781 | 6,798 |
| 440                                  | 6,815                                | 6,832 | 6,849 | 6,866 | 6,882 | 6,899 | 6,916 | 6,933 | 6,950 | 6,967 |
| 450                                  | 6,984                                | 7,000 | 7,017 | 7,034 | 7,051 | 7,068 | 7,085 | 7,102 | 7,118 | 7,135 |
| 460                                  | 7,152                                | 7,169 | 7,186 | 7,203 | 7,220 | 7,236 | 7,253 | 7,270 | 7,287 | 7,304 |
| 470                                  | 7,321                                | 7,338 | 7,354 | 7,371 | 7,388 | 7,405 | 7,422 | 7,439 | 7,455 | 7,472 |
| 480                                  | 7,489                                | 7,506 | 7,523 | 7,540 | 7,557 | 7,573 | 7,590 | 7,607 | 7,624 | 7,641 |
| 490                                  | 7,658                                | 7,675 | 7,691 | 7,708 | 7,725 | 7,742 | 7,759 | 7,776 | 7,792 | 7,809 |
| 500                                  | 7,826                                | 7,843 | 7,860 | 7,877 | 7,893 | 7,910 | 7,927 | 7,944 | 7,961 | 7,978 |
| 510                                  | 7,995                                | 8,011 | 8,028 | 8,045 | 8,062 | 8,079 | 8,095 | 8,112 | 8,129 | 8,146 |
| 520                                  | 8,163                                | 8,180 | 8,196 | 8,213 | 8,230 | 8,247 | 8,264 | 8,281 | 8,297 | 8,314 |
| 530                                  | 8,331                                | 8,348 | 8,365 | 8,381 | 8,398 | 8,415 | 8,432 | 8,449 | 8,466 | 8,482 |
| 540                                  | 8,499                                | 8,516 | 8,533 | 8,550 | 8,566 | 8,583 | 8,600 | 8,617 | 8,634 | 8,650 |
| 550                                  | 8,667                                | 8,684 | 8,701 | 8,718 | 8,734 | 8,751 | 8,768 | 8,785 | 8,801 | 8,818 |
| 560                                  | 8,835                                | 8,852 | 8,869 | 8,885 | 8,902 | 8,919 | 8,936 | 8,952 | 8,969 | 8,986 |
| 570                                  | 9,003                                | 9,020 | 9,036 | 9,053 | 9,070 | 9,087 | 9,103 | 9,120 | 9,137 | 9,154 |
| 580                                  | 9,170                                | 9,187 | 9,204 | 9,221 | 9,237 | 9,254 | 9,271 | 9,288 | 9,304 | 9,321 |

| Температура<br>рабочего<br>конца, °C | Т. э. д. с., мВ, для температуры, °C |        |        |        |        |        |        |        |        |        |
|--------------------------------------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                      | 0                                    | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
| 590                                  | 9,338                                | 9,355  | 9,371  | 9,388  | 9,405  | 9,422  | 9,438  | 9,455  | 9,472  | 9,488  |
| 600                                  | 9,505                                | 9,522  | 9,539  | 9,555  | 9,572  | 9,589  | 9,605  | 9,622  | 9,639  | 9,656  |
| 610                                  | 9,672                                | 9,689  | 9,706  | 9,722  | 9,739  | 9,756  | 9,772  | 9,789  | 9,806  | 9,823  |
| 620                                  | 9,839                                | 9,856  | 9,873  | 9,889  | 9,906  | 9,923  | 9,939  | 9,956  | 9,973  | 9,989  |
| 630                                  | 10,006                               | 10,023 | 10,039 | 10,056 | 10,073 | 10,089 | 10,106 | 10,123 | 10,139 | 10,156 |
| 640                                  | 10,173                               | 10,189 | 10,206 | 10,222 | 10,239 | 10,256 | 10,272 | 10,289 | 10,306 | 10,322 |
| 650                                  | 10,339                               | 10,356 | 10,372 | 10,389 | 10,405 | 10,422 | 10,439 | 10,455 | 10,472 | 10,488 |
| 660                                  | 10,505                               | 10,522 | 10,538 | 10,555 | 10,571 | 10,588 | 10,605 | 10,621 | 10,638 | 10,654 |
| 670                                  | 10,671                               | 10,688 | 10,704 | 10,721 | 10,737 | 10,754 | 10,770 | 10,787 | 10,804 | 10,820 |
| 680                                  | 10,837                               | 10,853 | 10,870 | 10,886 | 10,903 | 10,919 | 10,936 | 10,953 | 10,969 | 10,986 |
| 690                                  | 11,002                               | 11,019 | 11,035 | 11,052 | 11,068 | 11,085 | 11,101 | 11,118 | 11,134 | 11,151 |
| 700                                  | 11,167                               | 11,184 | 11,200 | 11,217 | 11,233 | 11,250 | 11,266 | 11,283 | 11,299 | 11,316 |
| 710                                  | 11,332                               | 11,349 | 11,365 | 11,382 | 11,398 | 11,415 | 11,431 | 11,448 | 11,464 | 11,481 |
| 720                                  | 11,497                               | 11,514 | 11,530 | 11,546 | 11,563 | 11,579 | 11,596 | 11,612 | 11,629 | 11,645 |
| 730                                  | 11,662                               | 11,678 | 11,694 | 11,711 | 11,727 | 11,744 | 11,760 | 11,777 | 11,793 | 11,809 |
| 740                                  | 11,826                               | 11,842 | 11,859 | 11,875 | 11,891 | 11,908 | 11,924 | 11,941 | 11,957 | 11,973 |
| 750                                  | 11,990                               | 12,006 | 12,022 | 12,039 | 12,055 | 12,072 | 12,088 | 12,104 | 12,121 | 12,137 |
| 760                                  | 12,153                               | 12,170 | 12,186 | 12,202 | 12,219 | 12,235 | 12,251 | 12,268 | 12,284 | 12,300 |
| 770                                  | 12,317                               | 12,333 | 12,349 | 12,366 | 12,382 | 12,398 | 12,415 | 12,431 | 12,447 | 12,463 |
| 780                                  | 12,480                               | 12,496 | 12,512 | 12,529 | 12,545 | 12,561 | 12,577 | 12,594 | 12,610 | 12,626 |
| 790                                  | 12,642                               | 12,659 | 12,675 | 12,691 | 12,707 | 12,724 | 12,740 | 12,756 | 12,772 | 12,789 |
| 800                                  | 12,805                               | 12,821 | 12,837 | 12,854 | 12,870 | 12,886 | 12,902 | 12,918 | 12,935 | 12,951 |
| 810                                  | 12,967                               | 12,983 | 12,999 | 13,016 | 13,032 | 13,048 | 13,064 | 13,080 | 13,096 | 13,113 |
| 820                                  | 13,129                               | 13,145 | 13,161 | 13,177 | 13,193 | 13,210 | 13,226 | 13,242 | 13,258 | 13,274 |
| 830                                  | 13,290                               | 13,306 | 13,322 | 13,339 | 13,355 | 13,371 | 13,387 | 13,403 | 13,419 | 13,435 |
| 840                                  | 13,451                               | 13,467 | 13,483 | 13,500 | 13,516 | 13,532 | 13,548 | 13,564 | 13,580 | 13,596 |
| 850                                  | 13,612                               | 13,628 | 13,644 | 13,660 | 13,676 | 13,692 | 13,708 | 13,724 | 13,740 | 13,756 |
| 860                                  | 13,772                               | 13,789 | 13,805 | 13,821 | 13,837 | 13,853 | 13,869 | 13,885 | 13,901 | 13,917 |
| 870                                  | 13,933                               | 13,949 | 13,965 | 13,980 | 13,996 | 14,012 | 14,028 | 14,044 | 14,060 | 14,076 |
| 880                                  | 14,092                               | 14,108 | 14,124 | 14,140 | 14,156 | 14,172 | 14,188 | 14,204 | 14,220 | 14,236 |
| 890                                  | 14,252                               | 14,267 | 14,283 | 14,299 | 14,315 | 14,331 | 14,347 | 14,363 | 14,379 | 14,395 |

| Температура<br>рабочего<br>конца, °C | Т. э. д. с., мВ, для температуры, °C |        |        |        |        |        |        |        |        |        |
|--------------------------------------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                      | 0                                    | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
| 900                                  | 14,410                               | 14,426 | 14,442 | 14,458 | 14,474 | 14,490 | 14,506 | 14,522 | 14,537 | 14,553 |
| 910                                  | 14,569                               | 14,585 | 14,601 | 14,617 | 14,632 | 14,648 | 14,664 | 14,680 | 14,696 | 14,711 |
| 920                                  | 14,727                               | 14,743 | 14,759 | 14,775 | 14,790 | 14,806 | 14,822 | 14,838 | 14,853 | 14,869 |
| 930                                  | 14,885                               | 14,901 | 14,916 | 14,932 | 14,948 | 14,964 | 14,979 | 14,995 | 15,011 | 15,027 |
| 940                                  | 15,042                               | 15,058 | 15,074 | 15,089 | 15,105 | 15,121 | 15,137 | 15,152 | 15,168 | 15,184 |
| 950                                  | 15,199                               | 15,215 | 15,231 | 15,246 | 15,262 | 15,278 | 15,293 | 15,309 | 15,325 | 15,340 |
| 960                                  | 15,356                               | 15,371 | 15,387 | 15,403 | 15,418 | 15,434 | 15,450 | 15,465 | 15,481 | 15,496 |
| 970                                  | 15,512                               | 15,528 | 15,543 | 15,559 | 15,574 | 15,590 | 15,605 | 15,621 | 15,637 | 15,652 |
| 980                                  | 15,668                               | 15,683 | 15,699 | 15,714 | 15,730 | 15,745 | 15,761 | 15,776 | 15,792 | 15,807 |
| 990                                  | 15,823                               | 15,838 | 15,854 | 15,869 | 15,885 | 15,900 | 15,916 | 15,931 | 15,947 | 15,962 |
| 1000                                 | 15,978                               | 15,993 | 16,009 | 16,024 | 16,040 | 16,055 | 16,070 | 16,086 | 16,101 | 16,117 |
| 1010                                 | 16,132                               | 16,148 | 16,163 | 16,178 | 16,194 | 16,209 | 16,225 | 16,240 | 16,255 | 16,271 |
| 1020                                 | 16,286                               | 16,302 | 16,317 | 16,332 | 16,348 | 16,363 | 16,378 | 16,394 | 16,409 | 16,424 |
| 1030                                 | 16,440                               | 16,455 | 16,470 | 16,486 | 16,501 | 16,516 | 16,532 | 16,547 | 16,562 | 16,577 |
| 1040                                 | 16,593                               | 16,608 | 16,623 | 16,638 | 16,654 | 16,669 | 16,684 | 16,700 | 16,715 | 16,730 |
| 1050                                 | 16,745                               | 16,760 | 16,776 | 16,791 | 16,806 | 16,821 | 16,837 | 16,852 | 16,867 | 16,882 |
| 1060                                 | 16,897                               | 16,913 | 16,928 | 16,943 | 16,958 | 16,973 | 16,988 | 17,004 | 17,019 | 17,034 |
| 1070                                 | 17,049                               | 17,064 | 17,079 | 17,094 | 17,110 | 17,125 | 17,140 | 17,155 | 17,170 | 17,185 |
| 1080                                 | 17,200                               | 17,215 | 17,230 | 17,245 | 17,261 | 17,276 | 17,291 | 17,306 | 17,321 | 17,336 |
| 1090                                 | 17,351                               | 17,366 | 17,381 | 17,396 | 17,411 | 17,426 | 17,441 | 17,456 | 17,471 | 17,486 |
| 1100                                 | 17,501                               | 17,516 | 17,531 | 17,546 | 17,561 | 17,576 | 17,591 | 17,606 | 17,621 | 17,636 |
| 1110                                 | 17,651                               | 17,666 | 17,681 | 17,696 | 17,711 | 17,726 | 17,740 | 17,755 | 17,770 | 17,785 |
| 1120                                 | 17,800                               | 17,815 | 17,830 | 17,845 | 17,860 | 17,875 | 17,889 | 17,904 | 17,919 | 17,934 |
| 1130                                 | 17,949                               | 17,964 | 17,979 | 17,993 | 18,008 | 18,023 | 18,038 | 18,053 | 18,068 | 18,082 |
| 1140                                 | 18,097                               | 18,112 | 18,127 | 18,142 | 18,156 | 18,171 | 18,186 | 18,201 | 18,215 | 18,230 |
| 1150                                 | 18,245                               | 18,260 | 18,274 | 18,289 | 18,304 | 18,319 | 18,333 | 18,348 | 18,363 | 18,378 |
| 1160                                 | 18,392                               | 18,407 | 18,422 | 18,436 | 18,451 | 18,466 | 18,480 | 18,495 | 18,510 | 18,524 |
| 1170                                 | 18,539                               | 18,554 | 18,568 | 18,583 | 18,598 | 18,612 | 18,627 | 18,642 | 18,656 | 18,671 |
| 1180                                 | 18,685                               | 18,700 | 18,715 | 18,729 | 18,744 | 18,758 | 18,773 | 18,787 | 18,802 | 18,817 |
| 1190                                 | 18,831                               | 18,846 | 18,860 | 18,875 | 18,889 | 18,904 | 18,918 | 18,933 | 18,947 | 18,962 |
| 1200                                 | 18,976                               | 18,991 | 19,005 | 19,020 | 19,034 | 19,049 | 19,063 | 19,078 | 19,092 | 19,107 |

| Температура<br>рабочего<br>конца, °С |        |        |        |        |
|--------------------------------------|--------|--------|--------|--------|
|                                      | 0      | 1      | 2      | 3      |
| 1210                                 | 19,121 | 19,136 | 19,150 | 19,165 |
| 1220                                 | 19,265 | 19,280 | 19,294 | 19,309 |
| 1230                                 | 19,409 | 19,424 | 19,438 | 19,452 |
| 1240                                 | 19,553 | 19,567 | 19,581 | 19,595 |
| 1250                                 | 19,695 | 19,710 | 19,724 | 19,738 |
| 1260                                 | 19,838 | 19,852 | 19,866 | 19,880 |
| 1270                                 | 19,979 | 19,993 | 20,008 | 20,022 |
| 1280                                 | 20,120 | 20,135 | 20,149 | 20,163 |
| 1290                                 | 20,261 | 20,275 | 20,289 | 20,303 |
| 1300                                 | 20,401 | 20,415 | 20,429 | 20,443 |
| 1310                                 | 20,541 | 20,555 | 20,569 | 20,583 |
| 1320                                 | 20,680 | 20,694 | 20,708 | 20,722 |
| 1330                                 | 20,819 | 20,833 | 20,847 | 20,861 |
| 1340                                 | 20,957 | 20,971 | 20,985 | 20,999 |
| 1350                                 | 21,095 | 21,109 | 21,122 | 21,136 |
| 1360                                 | 21,232 | 21,246 | 21,260 | 21,273 |
| 1370                                 | 21,369 | 21,382 | 21,396 | 21,410 |
| 1380                                 | 21,505 | 21,519 | 21,532 | 21,546 |
| 1390                                 | 21,641 | 21,654 | 21,668 | 21,681 |
| 1400                                 | 21,776 | 21,789 | 21,803 | 21,816 |
| 1410                                 | 21,911 | 21,924 | 21,937 | 21,951 |
| 1420                                 | 22,045 | 22,058 | 22,072 | 22,085 |
| 1430                                 | 22,179 | 22,192 | 22,205 | 22,219 |
| 1440                                 | 22,312 | 22,325 | 22,338 | 22,352 |
| 1450                                 | 22,444 | 22,458 | 22,471 | 22,484 |
| 1460                                 | 22,577 | 22,590 | 22,603 | 22,616 |
| 1470                                 | 22,708 | 22,722 | 22,735 | 22,748 |
| 1480                                 | 22,840 | 22,853 | 22,866 | 22,879 |
| 1490                                 | 22,970 | 22,983 | 22,997 | 23,010 |
| 1500                                 | 23,101 | 23,114 | 23,127 | 23,140 |

Продолжение табл. 4

мВ, для температуры, °C

| 4      | 5      | 6      | 7      | 8      | 9      |
|--------|--------|--------|--------|--------|--------|
| 19,179 | 19,193 | 19,208 | 19,222 | 19,237 | 19,251 |
| 19,323 | 19,337 | 19,352 | 19,366 | 19,381 | 19,395 |
| 19,467 | 19,481 | 19,495 | 19,510 | 19,524 | 19,538 |
| 19,610 | 19,624 | 19,638 | 19,652 | 19,667 | 19,681 |
| 19,752 | 19,766 | 19,781 | 19,795 | 19,809 | 19,823 |
| 19,894 | 19,908 | 19,923 | 19,937 | 19,951 | 19,965 |
| 20,036 | 20,050 | 20,064 | 20,078 | 20,092 | 20,106 |
| 20,177 | 20,191 | 20,205 | 20,219 | 20,233 | 20,247 |
| 20,317 | 20,331 | 20,345 | 20,359 | 20,373 | 20,387 |
| 20,457 | 20,471 | 20,485 | 20,499 | 20,513 | 20,527 |
| 20,597 | 20,611 | 20,625 | 20,639 | 20,653 | 20,666 |
| 20,736 | 20,750 | 20,764 | 20,777 | 20,791 | 20,805 |
| 20,874 | 20,888 | 20,902 | 20,916 | 20,930 | 20,943 |
| 21,012 | 21,026 | 21,040 | 21,054 | 21,067 | 21,081 |
| 21,150 | 21,164 | 21,177 | 21,191 | 21,205 | 21,218 |
| 21,287 | 21,301 | 21,314 | 21,328 | 21,342 | 21,355 |
| 21,423 | 21,437 | 21,451 | 21,464 | 21,478 | 21,491 |
| 21,559 | 21,573 | 21,586 | 21,600 | 21,614 | 21,627 |
| 21,695 | 21,708 | 21,722 | 21,735 | 21,749 | 21,762 |
| 21,830 | 21,843 | 21,857 | 21,870 | 21,884 | 21,897 |
| 21,964 | 21,978 | 21,991 | 22,005 | 22,018 | 22,031 |
| 22,098 | 22,112 | 22,125 | 22,138 | 22,152 | 22,165 |
| 22,232 | 22,245 | 22,258 | 22,272 | 22,285 | 22,298 |
| 22,365 | 22,378 | 22,391 | 22,405 | 22,418 | 22,431 |
| 22,497 | 22,511 | 22,524 | 22,537 | 22,550 | 22,563 |
| 22,629 | 22,643 | 22,656 | 22,669 | 22,682 | 22,295 |
| 22,761 | 22,774 | 22,787 | 22,800 | 22,813 | 22,827 |
| 22,892 | 22,905 | 22,918 | 22,931 | 22,944 | 22,957 |
| 23,023 | 23,036 | 23,049 | 23,062 | 23,075 | 23,088 |
| 23,153 | 23,166 | 23,179 | 23,192 | 23,205 | 23,218 |

[illegible]

## Тип ТПР

## Номинальная статическая характеристика преобразования ПР (В)

| Температура<br>рабочего<br>конда, °С | Т. э. д. с., мВ, для температуры, °С |        |        |        |        |        |        |        |        |        |
|--------------------------------------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                      | 0                                    | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
| 0                                    | 0,000                                | —0,000 | —0,000 | —0,001 | —0,001 | —0,001 | —0,001 | —0,001 | —0,002 | —0,002 |
| 10                                   | —0,002                               | —0,002 | —0,002 | —0,002 | —0,002 | —0,002 | —0,002 | —0,002 | —0,003 | —0,003 |
| 20                                   | —0,003                               | —0,003 | —0,003 | —0,003 | —0,003 | —0,002 | —0,002 | —0,002 | —0,002 | —0,002 |
| 30                                   | —0,002                               | —0,002 | —0,002 | —0,002 | —0,002 | —0,001 | —0,001 | —0,001 | —0,001 | —0,001 |
| 40                                   | 0,000                                | 0,000  | 0,000  | 0,000  | 0,000  | 0,001  | 0,001  | 0,001  | 0,002  | 0,002  |
| 50                                   | 0,002                                | 0,003  | 0,003  | 0,003  | 0,004  | 0,004  | 0,004  | 0,005  | 0,005  | 0,006  |
| 60                                   | 0,002                                | 0,007  | 0,007  | 0,008  | 0,008  | 0,009  | 0,009  | 0,010  | 0,010  | 0,011  |
| 70                                   | 0,011                                | 0,012  | 0,012  | 0,013  | 0,014  | 0,014  | 0,015  | 0,015  | 0,016  | 0,017  |
| 80                                   | 0,017                                | 0,018  | 0,019  | 0,020  | 0,020  | 0,021  | 0,022  | 0,022  | 0,023  | 0,024  |
| 90                                   | 0,025                                | 0,026  | 0,026  | 0,027  | 0,028  | 0,029  | 0,030  | 0,031  | 0,031  | 0,032  |
| 100                                  | 0,033                                | 0,034  | 0,035  | 0,036  | 0,037  | 0,038  | 0,039  | 0,040  | 0,041  | 0,042  |
| 110                                  | 0,043                                | 0,044  | 0,045  | 0,046  | 0,047  | 0,048  | 0,049  | 0,050  | 0,051  | 0,052  |
| 120                                  | 0,053                                | 0,055  | 0,056  | 0,057  | 0,058  | 0,059  | 0,060  | 0,062  | 0,063  | 0,064  |
| 130                                  | 0,065                                | 0,066  | 0,068  | 0,069  | 0,070  | 0,071  | 0,073  | 0,074  | 0,075  | 0,077  |
| 140                                  | 0,078                                | 0,079  | 0,081  | 0,082  | 0,083  | 0,085  | 0,086  | 0,088  | 0,089  | 0,091  |
| 150                                  | 0,092                                | 0,093  | 0,095  | 0,096  | 0,098  | 0,099  | 0,101  | 0,102  | 0,104  | 0,106  |
| 160                                  | 0,107                                | 0,109  | 0,110  | 0,112  | 0,113  | 0,115  | 0,117  | 0,118  | 0,120  | 0,122  |
| 170                                  | 0,123                                | 0,125  | 0,127  | 0,128  | 0,130  | 0,132  | 0,133  | 0,135  | 0,137  | 0,139  |
| 180                                  | 0,140                                | 0,142  | 0,144  | 0,146  | 0,148  | 0,149  | 0,151  | 0,153  | 0,155  | 0,157  |
| 190                                  | 0,159                                | 0,161  | 0,163  | 0,164  | 0,166  | 0,168  | 0,170  | 0,172  | 0,174  | 0,176  |
| 200                                  | 0,178                                | 0,180  | 0,182  | 0,184  | 0,186  | 0,188  | 0,190  | 0,192  | 0,194  | 0,197  |
| 210                                  | 0,199                                | 0,201  | 0,203  | 0,205  | 0,207  | 0,209  | 0,211  | 0,214  | 0,216  | 0,218  |
| 220                                  | 0,220                                | 0,222  | 0,225  | 0,227  | 0,229  | 0,231  | 0,234  | 0,236  | 0,238  | 0,240  |
| 230                                  | 0,243                                | 0,245  | 0,247  | 0,250  | 0,252  | 0,254  | 0,257  | 0,259  | 0,262  | 0,264  |
| 240                                  | 0,266                                | 0,269  | 0,271  | 0,274  | 0,276  | 0,279  | 0,281  | 0,284  | 0,286  | 0,289  |
| 250                                  | 0,291                                | 0,294  | 0,296  | 0,299  | 0,301  | 0,304  | 0,307  | 0,309  | 0,312  | 0,314  |
| 260                                  | 0,317                                | 0,320  | 0,322  | 0,325  | 0,328  | 0,330  | 0,333  | 0,336  | 0,338  | 0,341  |
| 270                                  | 0,344                                | 0,347  | 0,349  | 0,352  | 0,355  | 0,358  | 0,360  | 0,363  | 0,366  | 0,369  |

| Температура<br>рабочего<br>конца, °С | Т э. д. с., мВ, для температуры, °С |       |       |       |       |       |       |       |       |       |
|--------------------------------------|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                      | 0                                   | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     |
| 280                                  | 0,372                               | 0,375 | 0,377 | 0,380 | 0,383 | 0,386 | 0,389 | 0,392 | 0,395 | 0,398 |
| 290                                  | 0,401                               | 0,404 | 0,406 | 0,409 | 0,412 | 0,415 | 0,418 | 0,421 | 0,424 | 0,427 |
| 300                                  | 0,431                               | 0,434 | 0,437 | 0,440 | 0,443 | 0,446 | 0,449 | 0,452 | 0,455 | 0,458 |
| 310                                  | 0,462                               | 0,465 | 0,468 | 0,471 | 0,474 | 0,477 | 0,481 | 0,484 | 0,487 | 0,490 |
| 320                                  | 0,494                               | 0,497 | 0,500 | 0,503 | 0,507 | 0,510 | 0,513 | 0,517 | 0,520 | 0,523 |
| 330                                  | 0,527                               | 0,530 | 0,533 | 0,537 | 0,540 | 0,544 | 0,547 | 0,550 | 0,554 | 0,557 |
| 340                                  | 0,561                               | 0,564 | 0,568 | 0,571 | 0,575 | 0,578 | 0,582 | 0,585 | 0,589 | 0,592 |
| 350                                  | 0,596                               | 0,599 | 0,603 | 0,606 | 0,610 | 0,614 | 0,617 | 0,621 | 0,625 | 0,628 |
| 360                                  | 0,632                               | 0,636 | 0,639 | 0,643 | 0,647 | 0,650 | 0,654 | 0,658 | 0,661 | 0,665 |
| 370                                  | 0,669                               | 0,673 | 0,677 | 0,680 | 0,684 | 0,688 | 0,692 | 0,696 | 0,699 | 0,703 |
| 380                                  | 0,707                               | 0,711 | 0,715 | 0,719 | 0,723 | 0,727 | 0,730 | 0,734 | 0,738 | 0,742 |
| 390                                  | 0,746                               | 0,750 | 0,754 | 0,758 | 0,762 | 0,766 | 0,770 | 0,774 | 0,778 | 0,782 |
| 400                                  | 0,786                               | 0,790 | 0,794 | 0,799 | 0,803 | 0,807 | 0,811 | 0,815 | 0,819 | 0,823 |
| 410                                  | 0,827                               | 0,832 | 0,836 | 0,840 | 0,844 | 0,848 | 0,853 | 0,857 | 0,861 | 0,865 |
| 420                                  | 0,870                               | 0,874 | 0,878 | 0,882 | 0,887 | 0,891 | 0,895 | 0,900 | 0,904 | 0,908 |
| 430                                  | 0,913                               | 0,917 | 0,921 | 0,926 | 0,930 | 0,935 | 0,939 | 0,943 | 0,948 | 0,952 |
| 440                                  | 0,957                               | 0,961 | 0,966 | 0,970 | 0,975 | 0,979 | 0,984 | 0,988 | 0,993 | 0,997 |
| 450                                  | 1,002                               | 1,006 | 1,011 | 1,015 | 1,020 | 1,025 | 1,029 | 1,034 | 1,039 | 1,043 |
| 460                                  | 1,048                               | 1,052 | 1,057 | 1,062 | 1,066 | 1,071 | 1,076 | 1,081 | 1,085 | 1,090 |
| 470                                  | 1,095                               | 1,100 | 1,104 | 1,109 | 1,114 | 1,119 | 1,123 | 1,128 | 1,133 | 1,138 |
| 480                                  | 1,143                               | 1,148 | 1,152 | 1,157 | 1,162 | 1,167 | 1,172 | 1,177 | 1,182 | 1,187 |
| 490                                  | 1,192                               | 1,197 | 1,202 | 1,206 | 1,211 | 1,216 | 1,221 | 1,226 | 1,231 | 1,236 |
| 500                                  | 1,241                               | 1,246 | 1,252 | 1,257 | 1,262 | 1,267 | 1,272 | 1,277 | 1,282 | 1,287 |
| 510                                  | 1,292                               | 1,297 | 1,303 | 1,308 | 1,313 | 1,318 | 1,323 | 1,328 | 1,334 | 1,339 |
| 520                                  | 1,344                               | 1,349 | 1,354 | 1,360 | 1,365 | 1,370 | 1,375 | 1,381 | 1,386 | 1,391 |
| 530                                  | 1,397                               | 1,402 | 1,407 | 1,413 | 1,418 | 1,423 | 1,429 | 1,434 | 1,439 | 1,445 |
| 540                                  | 1,450                               | 1,456 | 1,461 | 1,467 | 1,472 | 1,477 | 1,483 | 1,488 | 1,494 | 1,499 |
| 550                                  | 1,505                               | 1,510 | 1,516 | 1,521 | 1,527 | 1,532 | 1,538 | 1,544 | 1,549 | 1,555 |
| 560                                  | 1,560                               | 1,566 | 1,571 | 1,577 | 1,583 | 1,588 | 1,594 | 1,600 | 1,605 | 1,611 |
| 570                                  | 1,617                               | 1,622 | 1,628 | 1,634 | 1,639 | 1,645 | 1,651 | 1,657 | 1,662 | 1,668 |
| 580                                  | 1,674                               | 1,680 | 1,686 | 1,691 | 1,697 | 1,703 | 1,709 | 1,715 | 1,720 | 1,726 |

| Температура<br>рабочего<br>конца, °C | Т э. д. с., мВ, для температуры, °C |       |       |       |       |       |       |       |       |       |
|--------------------------------------|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                      | 0                                   | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     |
| 590                                  | 1,732                               | 1,738 | 1,744 | 1,750 | 1,756 | 1,762 | 1,767 | 1,773 | 1,779 | 1,785 |
| 600                                  | 1,791                               | 1,797 | 1,803 | 1,809 | 1,815 | 1,821 | 1,827 | 1,833 | 1,839 | 1,845 |
| 610                                  | 1,851                               | 1,857 | 1,863 | 1,869 | 1,875 | 1,882 | 1,888 | 1,894 | 1,900 | 1,906 |
| 620                                  | 1,912                               | 1,918 | 1,924 | 1,931 | 1,937 | 1,943 | 1,949 | 1,955 | 1,961 | 1,968 |
| 630                                  | 1,974                               | 1,980 | 1,986 | 1,993 | 1,999 | 2,005 | 2,011 | 2,018 | 2,024 | 2,030 |
| 640                                  | 2,036                               | 2,043 | 2,049 | 2,055 | 2,062 | 2,068 | 2,074 | 2,081 | 2,087 | 2,094 |
| 650                                  | 2,100                               | 2,106 | 2,113 | 2,119 | 2,126 | 2,132 | 2,139 | 2,145 | 2,151 | 2,158 |
| 660                                  | 2,164                               | 2,171 | 2,177 | 2,184 | 2,190 | 2,197 | 2,203 | 2,210 | 2,216 | 2,223 |
| 670                                  | 2,230                               | 2,236 | 2,243 | 2,249 | 2,256 | 2,263 | 2,269 | 2,276 | 2,282 | 2,289 |
| 680                                  | 2,296                               | 2,302 | 2,309 | 2,316 | 2,322 | 2,329 | 2,336 | 2,343 | 2,349 | 2,356 |
| 690                                  | 2,363                               | 2,369 | 2,376 | 2,383 | 2,390 | 2,396 | 2,403 | 2,410 | 2,417 | 2,424 |
| 700                                  | 2,430                               | 2,437 | 2,444 | 2,451 | 2,458 | 2,465 | 2,472 | 2,478 | 2,485 | 2,492 |
| 710                                  | 2,499                               | 2,506 | 2,513 | 2,520 | 2,527 | 2,534 | 2,541 | 2,548 | 2,555 | 2,562 |
| 720                                  | 2,569                               | 2,576 | 2,583 | 2,590 | 2,597 | 2,604 | 2,611 | 2,618 | 2,625 | 2,632 |
| 730                                  | 2,639                               | 2,646 | 2,653 | 2,660 | 2,667 | 2,674 | 2,682 | 2,689 | 2,696 | 2,703 |
| 740                                  | 2,710                               | 2,717 | 2,724 | 2,732 | 2,739 | 2,746 | 2,753 | 2,760 | 2,768 | 2,775 |
| 750                                  | 2,782                               | 2,789 | 2,797 | 2,804 | 2,811 | 2,818 | 2,826 | 2,833 | 2,840 | 2,848 |
| 760                                  | 2,855                               | 2,862 | 2,869 | 2,877 | 2,884 | 2,892 | 2,899 | 2,906 | 2,914 | 2,921 |
| 770                                  | 2,928                               | 2,936 | 2,943 | 2,951 | 2,958 | 2,966 | 2,973 | 2,980 | 2,988 | 2,995 |
| 780                                  | 3,003                               | 3,010 | 3,018 | 3,025 | 3,033 | 3,040 | 3,048 | 3,055 | 3,063 | 3,070 |
| 790                                  | 3,078                               | 3,086 | 3,093 | 3,101 | 3,108 | 3,116 | 3,124 | 3,131 | 3,139 | 3,146 |
| 800                                  | 3,154                               | 3,162 | 3,169 | 3,177 | 3,185 | 3,192 | 3,200 | 3,208 | 3,215 | 3,223 |
| 810                                  | 3,231                               | 3,239 | 3,246 | 3,254 | 3,262 | 3,269 | 3,277 | 3,285 | 3,293 | 3,301 |
| 820                                  | 3,308                               | 3,316 | 3,324 | 3,332 | 3,340 | 3,347 | 3,355 | 3,363 | 3,371 | 3,379 |
| 830                                  | 3,387                               | 3,395 | 3,402 | 3,410 | 3,418 | 3,426 | 3,434 | 3,442 | 3,450 | 3,458 |
| 840                                  | 3,466                               | 3,474 | 3,482 | 3,490 | 3,498 | 3,506 | 3,514 | 3,522 | 3,530 | 3,538 |
| 850                                  | 3,546                               | 3,554 | 3,562 | 3,570 | 3,578 | 3,586 | 3,594 | 3,602 | 3,610 | 3,618 |
| 860                                  | 3,626                               | 3,634 | 3,643 | 3,651 | 3,659 | 3,667 | 3,675 | 3,683 | 3,691 | 3,700 |
| 870                                  | 3,708                               | 3,716 | 3,724 | 3,732 | 3,741 | 3,749 | 3,757 | 3,765 | 3,773 | 3,782 |
| 880                                  | 3,790                               | 3,798 | 3,806 | 3,815 | 3,823 | 3,831 | 3,840 | 3,848 | 3,856 | 3,864 |
| 890                                  | 3,873                               | 3,881 | 3,890 | 3,898 | 3,906 | 3,915 | 3,923 | 3,931 | 3,940 | 3,949 |

| Температура<br>рабочего<br>конца, °С | Т. э. д. с., мВ, для температуры, °С |       |       |       |       |       |       |       |       |       |
|--------------------------------------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                      | 0                                    | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     |
| 900                                  | 3,957                                | 3,965 | 3,973 | 3,982 | 3,990 | 3,999 | 4,007 | 4,016 | 4,024 | 4,032 |
| 910                                  | 4,041                                | 4,049 | 4,058 | 4,066 | 4,075 | 4,083 | 4,092 | 4,100 | 4,109 | 4,117 |
| 920                                  | 4,126                                | 4,135 | 4,143 | 4,152 | 4,160 | 4,169 | 4,177 | 4,186 | 4,195 | 4,203 |
| 930                                  | 4,212                                | 4,220 | 4,229 | 4,238 | 4,246 | 4,255 | 4,264 | 4,272 | 4,281 | 4,290 |
| 940                                  | 4,298                                | 4,307 | 4,316 | 4,325 | 4,333 | 4,342 | 4,351 | 4,359 | 4,368 | 4,377 |
| 950                                  | 4,386                                | 4,394 | 4,403 | 4,412 | 4,421 | 4,430 | 4,438 | 4,447 | 4,456 | 4,465 |
| 960                                  | 4,474                                | 4,483 | 4,491 | 4,500 | 4,509 | 4,518 | 4,527 | 4,536 | 4,545 | 4,553 |
| 970                                  | 4,562                                | 4,571 | 4,580 | 4,589 | 4,598 | 4,607 | 4,616 | 4,625 | 4,634 | 4,643 |
| 980                                  | 4,652                                | 4,661 | 4,670 | 4,679 | 4,688 | 4,697 | 4,706 | 4,715 | 4,724 | 4,733 |
| 990                                  | 4,742                                | 4,751 | 4,760 | 4,769 | 4,778 | 4,787 | 4,796 | 4,805 | 4,814 | 4,824 |
| 1000                                 | 4,833                                | 4,842 | 4,851 | 4,860 | 4,869 | 4,878 | 4,887 | 4,897 | 4,906 | 4,915 |
| 1010                                 | 4,924                                | 4,933 | 4,942 | 4,952 | 4,961 | 4,970 | 4,979 | 4,989 | 4,998 | 5,007 |
| 1020                                 | 5,016                                | 5,025 | 5,035 | 5,044 | 5,053 | 5,063 | 5,072 | 5,081 | 5,090 | 5,100 |
| 1030                                 | 5,109                                | 5,118 | 5,128 | 5,137 | 5,146 | 5,156 | 5,165 | 5,174 | 5,184 | 5,193 |
| 1040                                 | 5,202                                | 5,212 | 5,221 | 5,231 | 5,240 | 5,249 | 5,259 | 5,268 | 5,278 | 5,287 |
| 1050                                 | 5,297                                | 5,306 | 5,316 | 5,325 | 5,334 | 5,344 | 5,353 | 5,363 | 5,372 | 5,382 |
| 1060                                 | 5,391                                | 5,401 | 5,410 | 5,420 | 5,429 | 5,439 | 5,449 | 5,458 | 5,468 | 5,477 |
| 1070                                 | 5,487                                | 5,496 | 5,506 | 5,516 | 5,525 | 5,535 | 5,544 | 5,554 | 5,564 | 5,573 |
| 1080                                 | 5,583                                | 5,593 | 5,602 | 5,612 | 5,621 | 5,631 | 5,641 | 5,651 | 5,660 | 5,670 |
| 1090                                 | 5,680                                | 5,689 | 5,699 | 5,709 | 5,718 | 5,728 | 5,738 | 5,748 | 5,757 | 5,767 |
| 1100                                 | 5,777                                | 5,787 | 5,796 | 5,806 | 5,816 | 5,826 | 5,836 | 5,845 | 5,855 | 5,865 |
| 1110                                 | 5,875                                | 5,885 | 5,895 | 5,904 | 5,914 | 5,924 | 5,934 | 5,944 | 5,954 | 5,964 |
| 1120                                 | 5,973                                | 5,983 | 5,993 | 6,003 | 6,013 | 6,023 | 6,033 | 6,043 | 6,053 | 6,063 |
| 1130                                 | 6,073                                | 6,083 | 6,093 | 6,102 | 6,112 | 6,122 | 6,132 | 6,142 | 6,152 | 6,162 |
| 1140                                 | 6,172                                | 6,182 | 6,192 | 6,202 | 6,212 | 6,223 | 6,233 | 6,243 | 6,253 | 6,263 |
| 1150                                 | 6,273                                | 6,283 | 6,293 | 6,303 | 6,313 | 6,323 | 6,333 | 6,343 | 6,353 | 6,364 |
| 1160                                 | 6,374                                | 6,384 | 6,394 | 6,404 | 6,414 | 6,424 | 6,435 | 6,445 | 6,455 | 6,465 |
| 1170                                 | 6,475                                | 6,485 | 6,496 | 6,506 | 6,516 | 6,526 | 6,536 | 6,547 | 6,557 | 6,567 |
| 1180                                 | 6,577                                | 6,588 | 6,598 | 6,608 | 6,618 | 6,629 | 6,639 | 6,649 | 6,659 | 6,670 |
| 1190                                 | 6,680                                | 6,690 | 6,701 | 6,711 | 6,721 | 6,732 | 6,742 | 6,752 | 6,763 | 6,773 |
| 1200                                 | 6,783                                | 6,794 | 6,804 | 6,814 | 6,825 | 6,835 | 6,846 | 6,856 | 6,866 | 6,877 |

| Температура<br>рабочего<br>конца, °С | Т. э. д. с., мВ, для температуры, °С |        |        |        |        |        |        |        |        |        |
|--------------------------------------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                      | 0                                    | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
| 1210                                 | 6,887                                | 6,898  | 6,908  | 6,918  | 6,929  | 6,939  | 6,950  | 6,960  | 6,971  | 6,981  |
| 1220                                 | 6,991                                | 7,002  | 7,012  | 7,023  | 7,033  | 7,044  | 7,054  | 7,065  | 7,075  | 0,086  |
| 1230                                 | 7,096                                | 7,107  | 7,117  | 7,128  | 7,138  | 7,149  | 7,159  | 7,170  | 7,181  | 7,191  |
| 1240                                 | 7,202                                | 7,212  | 7,223  | 7,234  | 7,245  | 7,255  | 7,265  | 7,276  | 7,286  | 7,297  |
| 1250                                 | 7,308                                | 7,318  | 7,329  | 7,339  | 7,350  | 7,361  | 7,371  | 7,382  | 7,393  | 7,403  |
| 1260                                 | 7,414                                | 7,425  | 7,435  | 7,446  | 7,457  | 7,467  | 7,478  | 7,489  | 7,500  | 7,510  |
| 1270                                 | 7,521                                | 7,532  | 7,542  | 7,553  | 7,564  | 7,575  | 7,585  | 7,596  | 7,607  | 7,618  |
| 1280                                 | 7,628                                | 7,639  | 7,650  | 7,661  | 7,671  | 7,682  | 7,693  | 7,704  | 7,715  | 7,725  |
| 1290                                 | 7,736                                | 7,747  | 7,758  | 7,769  | 7,780  | 7,790  | 7,801  | 7,812  | 7,823  | 7,834  |
| 1300                                 | 7,845                                | 7,855  | 7,866  | 7,877  | 7,888  | 7,899  | 7,910  | 7,921  | 7,932  | 7,943  |
| 1310                                 | 7,953                                | 7,964  | 7,975  | 7,986  | 7,997  | 8,008  | 8,019  | 8,030  | 8,041  | 8,052  |
| 1320                                 | 8,063                                | 8,074  | 8,085  | 8,096  | 8,107  | 8,118  | 8,128  | 8,139  | 8,150  | 8,161  |
| 1330                                 | 8,172                                | 8,183  | 8,194  | 8,205  | 8,216  | 8,227  | 8,238  | 8,249  | 8,261  | 8,272  |
| 1340                                 | 8,283                                | 8,294  | 8,305  | 8,316  | 8,327  | 8,338  | 8,349  | 8,360  | 8,371  | 8,382  |
| 1350                                 | 8,393                                | 8,404  | 8,415  | 8,426  | 8,437  | 8,449  | 8,460  | 8,471  | 8,482  | 8,493  |
| 1360                                 | 8,504                                | 8,515  | 8,526  | 8,538  | 8,549  | 8,560  | 8,571  | 8,582  | 8,593  | 8,604  |
| 1370                                 | 8,616                                | 8,627  | 8,638  | 8,649  | 8,660  | 8,671  | 8,683  | 8,694  | 8,705  | 8,716  |
| 1380                                 | 8,727                                | 8,738  | 8,750  | 8,761  | 8,772  | 8,783  | 8,795  | 8,806  | 8,817  | 8,828  |
| 1390                                 | 8,839                                | 8,851  | 8,862  | 8,873  | 8,884  | 8,896  | 8,907  | 8,918  | 8,929  | 8,941  |
| 1400                                 | 8,952                                | 8,963  | 8,974  | 8,986  | 8,997  | 9,008  | 9,020  | 9,031  | 9,042  | 9,053  |
| 1410                                 | 9,065                                | 9,076  | 9,087  | 9,099  | 9,110  | 9,121  | 9,133  | 9,144  | 9,155  | 9,167  |
| 1420                                 | 9,178                                | 9,189  | 9,201  | 9,212  | 9,223  | 9,235  | 9,246  | 9,257  | 9,269  | 9,280  |
| 1430                                 | 9,291                                | 9,303  | 9,314  | 9,326  | 9,337  | 9,348  | 9,360  | 9,371  | 9,382  | 9,394  |
| 1440                                 | 9,405                                | 9,417  | 9,428  | 9,439  | 9,461  | 9,462  | 9,474  | 9,485  | 9,497  | 9,508  |
| 1450                                 | 9,519                                | 9,531  | 9,542  | 9,554  | 9,565  | 9,577  | 9,588  | 9,599  | 9,611  | 9,622  |
| 1460                                 | 9,634                                | 9,645  | 9,657  | 9,668  | 9,680  | 9,691  | 9,703  | 9,714  | 9,726  | 9,737  |
| 1470                                 | 9,749                                | 9,760  | 9,772  | 9,783  | 9,794  | 9,806  | 9,817  | 9,828  | 9,840  | 9,852  |
| 1480                                 | 9,863                                | 9,875  | 9,886  | 9,898  | 9,909  | 9,921  | 9,933  | 9,944  | 9,956  | 9,967  |
| 1490                                 | 9,979                                | 9,991  | 10,002 | 10,014 | 10,025 | 10,036 | 10,048 | 10,059 | 10,071 | 10,082 |
| 1500                                 | 10,094                               | 10,106 | 10,117 | 10,129 | 10,140 | 10,152 | 10,163 | 10,175 | 10,187 | 10,198 |
| 1510                                 | 10,210                               | 10,221 | 10,233 | 10,244 | 10,256 | 10,268 | 10,279 | 10,291 | 10,302 | 10,314 |



## Тип ТПП

## Номинальная статическая характеристика преобразования ПП (S)

| Температура<br>рабочего<br>конца, °С | Т. э. д. с., мВ, для температуры, °С |       |       |       |       |       |       |       |       |       |
|--------------------------------------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                      | 0                                    | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     |
| 0                                    | 0,000                                | 0,005 | 0,011 | 0,016 | 0,022 | 0,027 | 0,033 | 0,038 | 0,044 | 0,050 |
| 10                                   | 0,055                                | 0,061 | 0,067 | 0,072 | 0,078 | 0,084 | 0,090 | 0,095 | 0,101 | 0,107 |
| 20                                   | 0,113                                | 0,119 | 0,125 | 0,131 | 0,137 | 0,142 | 0,148 | 0,154 | 0,161 | 0,167 |
| 30                                   | 0,173                                | 0,179 | 0,185 | 0,191 | 0,197 | 0,203 | 0,210 | 0,216 | 0,222 | 0,228 |
| 40                                   | 0,235                                | 0,241 | 0,247 | 0,254 | 0,260 | 0,266 | 0,273 | 0,279 | 0,286 | 0,292 |
| 50                                   | 0,299                                | 0,305 | 0,312 | 0,318 | 0,325 | 0,331 | 0,338 | 0,345 | 0,351 | 0,358 |
| 60                                   | 0,365                                | 0,371 | 0,378 | 0,385 | 0,391 | 0,398 | 0,405 | 0,412 | 0,419 | 0,425 |
| 70                                   | 0,432                                | 0,439 | 0,446 | 0,453 | 0,460 | 0,467 | 0,474 | 0,481 | 0,488 | 0,495 |
| 80                                   | 0,502                                | 0,509 | 0,516 | 0,523 | 0,530 | 0,537 | 0,544 | 0,551 | 0,558 | 0,566 |
| 90                                   | 0,573                                | 0,580 | 0,587 | 0,594 | 0,602 | 0,609 | 0,616 | 0,623 | 0,631 | 0,638 |
| 100                                  | 0,645                                | 0,653 | 0,660 | 0,667 | 0,675 | 0,682 | 0,690 | 0,697 | 0,704 | 0,712 |
| 110                                  | 0,719                                | 0,727 | 0,734 | 0,742 | 0,749 | 0,757 | 0,764 | 0,772 | 0,780 | 0,787 |
| 120                                  | 0,795                                | 0,802 | 0,810 | 0,818 | 0,825 | 0,833 | 0,841 | 0,848 | 0,856 | 0,864 |
| 130                                  | 0,872                                | 0,879 | 0,887 | 0,895 | 0,903 | 0,910 | 0,918 | 0,926 | 0,934 | 0,942 |
| 140                                  | 0,950                                | 0,957 | 0,965 | 0,973 | 0,981 | 0,989 | 0,997 | 1,005 | 1,013 | 1,021 |
| 150                                  | 1,029                                | 1,037 | 1,045 | 1,053 | 1,061 | 1,069 | 1,077 | 1,085 | 1,093 | 1,101 |
| 160                                  | 1,109                                | 1,117 | 1,125 | 1,133 | 1,141 | 1,149 | 1,158 | 1,166 | 1,174 | 1,182 |
| 170                                  | 1,190                                | 1,198 | 1,207 | 1,215 | 1,223 | 1,231 | 1,240 | 1,248 | 1,256 | 1,264 |
| 180                                  | 1,273                                | 1,281 | 1,289 | 1,297 | 1,306 | 1,314 | 1,322 | 1,331 | 1,339 | 1,347 |
| 190                                  | 1,356                                | 1,364 | 1,373 | 1,381 | 1,389 | 1,398 | 1,406 | 1,415 | 1,423 | 1,432 |
| 200                                  | 1,440                                | 1,448 | 1,457 | 1,465 | 1,474 | 1,482 | 1,491 | 1,499 | 1,508 | 1,516 |
| 210                                  | 1,525                                | 1,534 | 1,542 | 1,551 | 1,559 | 1,568 | 1,576 | 1,585 | 1,594 | 1,602 |
| 220                                  | 1,611                                | 1,620 | 1,628 | 1,637 | 1,645 | 1,651 | 1,663 | 1,671 | 1,680 | 1,689 |
| 230                                  | 1,698                                | 1,706 | 1,715 | 1,724 | 1,732 | 1,741 | 1,750 | 1,759 | 1,767 | 1,776 |
| 240                                  | 1,785                                | 1,794 | 1,802 | 1,811 | 1,820 | 1,829 | 1,838 | 1,846 | 1,855 | 1,864 |
| 250                                  | 1,873                                | 1,882 | 1,891 | 1,899 | 1,908 | 1,917 | 1,926 | 1,935 | 1,944 | 1,953 |
| 260                                  | 1,962                                | 1,971 | 1,979 | 1,988 | 1,997 | 2,006 | 2,015 | 2,024 | 2,033 | 2,042 |

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|--------------------------------------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                      | 0                                    | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     |
| 270                                  | 2,051                                | 2,060 | 2,069 | 2,078 | 2,087 | 2,096 | 2,105 | 2,114 | 2,123 | 2,132 |
| 280                                  | 2,141                                | 2,150 | 2,159 | 2,168 | 2,177 | 2,186 | 2,195 | 2,204 | 2,213 | 2,222 |
| 290                                  | 2,232                                | 2,241 | 2,250 | 2,259 | 2,268 | 2,277 | 2,286 | 2,295 | 2,304 | 2,314 |
| 300                                  | 2,323                                | 2,332 | 2,341 | 2,350 | 2,359 | 2,368 | 2,378 | 2,387 | 2,396 | 2,405 |
| 310                                  | 2,414                                | 2,424 | 2,433 | 2,442 | 2,451 | 2,460 | 2,470 | 2,479 | 2,488 | 2,497 |
| 320                                  | 2,506                                | 2,516 | 2,525 | 2,534 | 2,543 | 2,553 | 2,562 | 2,571 | 2,581 | 2,590 |
| 330                                  | 2,599                                | 2,608 | 2,618 | 2,627 | 2,636 | 2,646 | 2,655 | 2,664 | 2,674 | 2,683 |
| 340                                  | 2,692                                | 2,702 | 2,711 | 2,720 | 2,730 | 2,739 | 2,748 | 2,758 | 2,767 | 2,776 |
| 350                                  | 2,786                                | 2,795 | 2,805 | 2,814 | 2,823 | 2,833 | 2,842 | 2,852 | 2,861 | 2,870 |
| 360                                  | 2,880                                | 2,889 | 2,899 | 2,908 | 2,917 | 2,927 | 2,936 | 2,946 | 2,955 | 2,965 |
| 370                                  | 2,974                                | 2,984 | 2,993 | 3,003 | 3,012 | 3,022 | 3,031 | 3,041 | 3,050 | 3,059 |
| 380                                  | 3,069                                | 3,078 | 3,088 | 3,097 | 3,107 | 3,117 | 3,126 | 3,136 | 3,145 | 3,155 |
| 390                                  | 3,164                                | 3,174 | 3,183 | 3,193 | 3,202 | 3,212 | 3,221 | 3,231 | 3,241 | 3,250 |
| 400                                  | 3,260                                | 3,269 | 3,279 | 3,288 | 3,298 | 3,308 | 3,317 | 3,327 | 3,337 | 3,346 |
| 410                                  | 3,356                                | 3,365 | 3,375 | 3,384 | 3,394 | 3,404 | 3,413 | 3,423 | 3,433 | 3,442 |
| 420                                  | 3,452                                | 3,462 | 3,471 | 3,481 | 3,491 | 3,500 | 3,510 | 3,520 | 3,529 | 3,539 |
| 430                                  | 3,549                                | 3,558 | 3,568 | 3,578 | 3,587 | 3,597 | 3,607 | 3,616 | 3,626 | 3,636 |
| 440                                  | 3,645                                | 3,655 | 3,665 | 3,675 | 3,684 | 3,694 | 3,704 | 3,714 | 3,723 | 3,733 |
| 450                                  | 3,743                                | 3,752 | 3,762 | 3,772 | 3,782 | 3,791 | 3,801 | 3,811 | 3,821 | 3,831 |
| 460                                  | 3,840                                | 3,850 | 3,860 | 3,870 | 3,879 | 3,889 | 3,899 | 3,909 | 3,919 | 3,928 |
| 470                                  | 3,938                                | 3,948 | 3,958 | 3,968 | 3,977 | 3,987 | 3,997 | 4,007 | 4,017 | 4,027 |
| 480                                  | 4,036                                | 4,046 | 4,056 | 4,066 | 4,076 | 4,086 | 4,095 | 4,105 | 4,115 | 4,125 |
| 490                                  | 4,135                                | 4,145 | 4,155 | 4,164 | 4,174 | 4,184 | 4,194 | 4,204 | 4,214 | 4,224 |
| 500                                  | 4,234                                | 4,243 | 4,253 | 4,263 | 4,273 | 4,283 | 4,293 | 4,303 | 4,313 | 4,323 |
| 510                                  | 4,333                                | 4,343 | 4,352 | 4,362 | 4,372 | 4,382 | 4,392 | 4,402 | 4,412 | 4,422 |
| 520                                  | 4,432                                | 4,442 | 4,452 | 4,462 | 4,472 | 4,482 | 4,492 | 4,502 | 4,512 | 4,522 |
| 530                                  | 4,532                                | 4,542 | 4,552 | 4,562 | 4,572 | 4,582 | 4,592 | 4,602 | 4,612 | 4,622 |
| 540                                  | 4,632                                | 4,642 | 4,652 | 4,662 | 4,672 | 4,682 | 4,692 | 4,702 | 4,712 | 4,722 |
| 550                                  | 4,732                                | 4,742 | 4,752 | 4,762 | 4,772 | 4,782 | 4,792 | 4,802 | 4,812 | 4,822 |
| 560                                  | 4,832                                | 4,842 | 4,852 | 4,862 | 4,873 | 4,883 | 4,893 | 4,903 | 4,913 | 4,923 |

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|--------------------------------------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                      | 0                                    | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     |
| 570                                  | 4,933                                | 4,943 | 4,953 | 4,963 | 4,973 | 4,984 | 4,994 | 5,004 | 5,014 | 5,024 |
| 580                                  | 5,034                                | 5,044 | 5,054 | 5,065 | 5,075 | 5,085 | 5,095 | 5,105 | 5,115 | 5,125 |
| 590                                  | 5,136                                | 5,146 | 5,156 | 5,166 | 5,176 | 5,186 | 5,197 | 5,207 | 5,217 | 5,227 |
| 600                                  | 5,237                                | 5,247 | 5,258 | 5,268 | 5,278 | 5,288 | 5,298 | 5,309 | 5,319 | 5,329 |
| 610                                  | 5,339                                | 5,350 | 5,360 | 5,370 | 5,380 | 5,391 | 5,401 | 5,411 | 5,421 | 5,431 |
| 620                                  | 5,442                                | 5,452 | 5,462 | 5,473 | 5,483 | 5,493 | 5,503 | 5,514 | 5,524 | 5,534 |
| 630                                  | 5,544                                | 5,555 | 5,565 | 5,575 | 5,586 | 5,596 | 5,606 | 5,617 | 5,627 | 5,637 |
| 640                                  | 5,648                                | 5,658 | 5,668 | 5,679 | 5,689 | 5,700 | 5,710 | 5,720 | 5,730 | 5,740 |
| 650                                  | 5,751                                | 5,761 | 5,771 | 5,782 | 5,792 | 5,803 | 5,813 | 5,824 | 5,834 | 5,845 |
| 660                                  | 5,855                                | 5,866 | 5,876 | 5,887 | 5,897 | 5,907 | 5,918 | 5,928 | 5,939 | 5,949 |
| 670                                  | 5,960                                | 5,970 | 5,980 | 5,991 | 6,001 | 6,012 | 6,022 | 6,033 | 6,043 | 6,054 |
| 680                                  | 6,064                                | 6,075 | 6,085 | 6,095 | 6,106 | 6,117 | 6,127 | 6,138 | 6,148 | 6,159 |
| 690                                  | 6,169                                | 6,180 | 6,190 | 6,201 | 6,211 | 6,222 | 6,232 | 6,242 | 6,253 | 6,264 |
| 700                                  | 6,274                                | 6,285 | 6,295 | 6,306 | 6,316 | 6,327 | 6,338 | 6,348 | 6,359 | 6,369 |
| 710                                  | 6,380                                | 6,390 | 6,401 | 6,412 | 6,422 | 6,433 | 6,443 | 6,454 | 6,465 | 6,475 |
| 720                                  | 6,486                                | 6,496 | 6,507 | 6,518 | 6,528 | 6,539 | 6,549 | 6,560 | 6,571 | 6,581 |
| 730                                  | 6,592                                | 6,603 | 6,613 | 6,624 | 6,635 | 6,645 | 6,656 | 6,667 | 6,677 | 6,688 |
| 740                                  | 6,699                                | 6,709 | 6,720 | 6,731 | 6,741 | 6,752 | 6,763 | 6,773 | 6,784 | 6,795 |
| 750                                  | 6,805                                | 6,816 | 6,827 | 6,837 | 6,848 | 6,859 | 6,870 | 6,880 | 6,891 | 6,902 |
| 760                                  | 6,913                                | 6,923 | 6,934 | 6,945 | 6,956 | 6,966 | 6,977 | 6,988 | 6,999 | 7,009 |
| 770                                  | 7,020                                | 7,031 | 7,042 | 7,053 | 7,063 | 7,074 | 7,085 | 7,096 | 7,107 | 7,117 |
| 780                                  | 7,128                                | 7,139 | 7,150 | 7,161 | 7,171 | 7,182 | 7,193 | 7,204 | 7,215 | 7,225 |
| 790                                  | 7,236                                | 7,247 | 7,258 | 7,269 | 7,279 | 7,290 | 7,301 | 7,312 | 7,323 | 7,334 |
| 800                                  | 7,345                                | 7,356 | 7,367 | 7,377 | 7,388 | 7,399 | 7,410 | 7,421 | 7,432 | 7,443 |
| 810                                  | 7,454                                | 7,465 | 7,476 | 7,486 | 7,497 | 7,508 | 7,519 | 7,530 | 7,541 | 7,552 |
| 820                                  | 7,563                                | 7,574 | 7,585 | 7,596 | 7,607 | 7,618 | 7,629 | 7,640 | 7,651 | 7,661 |
| 830                                  | 7,672                                | 7,683 | 7,694 | 7,705 | 7,716 | 7,727 | 7,738 | 7,749 | 7,760 | 7,771 |
| 840                                  | 7,782                                | 7,793 | 7,804 | 7,815 | 7,826 | 7,837 | 7,848 | 7,859 | 7,870 | 7,881 |
| 850                                  | 7,892                                | 7,904 | 7,915 | 7,926 | 7,937 | 7,948 | 7,959 | 7,970 | 7,981 | 7,992 |
| 860                                  | 8,003                                | 8,014 | 8,025 | 8,036 | 8,047 | 8,058 | 8,069 | 8,081 | 8,092 | 8,103 |

| Температура<br>рабочего<br>конца, °С | Т. э. д. с., мВ, для температуры, °С |        |        |        |        |        |        |        |        |        |
|--------------------------------------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                      | 0                                    | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
| 870                                  | 8,114                                | 8,125  | 8,136  | 8,147  | 8,158  | 8,169  | 8,180  | 8,192  | 8,203  | 8,214  |
| 880                                  | 8,225                                | 8,236  | 8,247  | 8,258  | 8,270  | 8,281  | 8,292  | 8,303  | 8,314  | 8,325  |
| 890                                  | 8,336                                | 8,348  | 8,359  | 8,370  | 8,381  | 8,392  | 8,404  | 8,415  | 8,426  | 8,437  |
| 900                                  | 8,448                                | 8,460  | 8,471  | 8,482  | 8,493  | 8,504  | 8,516  | 8,527  | 8,538  | 8,549  |
| 910                                  | 8,560                                | 8,572  | 8,583  | 8,594  | 8,605  | 8,617  | 8,628  | 8,639  | 8,650  | 8,662  |
| 920                                  | 8,673                                | 8,684  | 8,695  | 8,707  | 8,718  | 8,729  | 8,741  | 8,752  | 8,763  | 8,774  |
| 930                                  | 8,786                                | 8,797  | 8,808  | 8,820  | 8,831  | 8,842  | 8,854  | 8,865  | 8,876  | 8,888  |
| 940                                  | 8,899                                | 8,910  | 8,922  | 8,933  | 8,944  | 8,956  | 8,967  | 8,978  | 8,990  | 9,001  |
| 950                                  | 9,012                                | 9,024  | 9,035  | 9,047  | 9,058  | 9,069  | 9,081  | 9,092  | 9,103  | 9,115  |
| 960                                  | 9,126                                | 9,138  | 9,149  | 9,160  | 9,172  | 9,182  | 9,195  | 9,206  | 9,217  | 9,229  |
| 970                                  | 9,240                                | 9,252  | 9,263  | 9,275  | 9,286  | 9,298  | 9,309  | 9,320  | 9,332  | 9,343  |
| 980                                  | 9,355                                | 9,366  | 9,378  | 9,389  | 9,401  | 9,412  | 9,424  | 9,435  | 9,447  | 9,458  |
| 990                                  | 9,470                                | 9,481  | 9,493  | 9,504  | 9,516  | 9,527  | 9,539  | 9,550  | 9,562  | 9,573  |
| 1000                                 | 9,585                                | 9,596  | 9,608  | 9,619  | 9,631  | 9,642  | 9,654  | 9,665  | 9,677  | 9,689  |
| 1010                                 | 9,700                                | 9,712  | 9,723  | 9,735  | 9,746  | 9,758  | 9,770  | 9,781  | 9,793  | 9,804  |
| 1020                                 | 9,816                                | 9,828  | 9,839  | 9,851  | 9,862  | 9,874  | 9,886  | 9,897  | 9,909  | 9,920  |
| 1030                                 | 9,932                                | 9,944  | 9,955  | 9,967  | 9,979  | 9,990  | 10,002 | 10,013 | 10,025 | 10,037 |
| 1040                                 | 10,048                               | 10,060 | 10,072 | 10,083 | 10,095 | 10,107 | 10,118 | 10,130 | 10,142 | 10,154 |
| 1050                                 | 10,165                               | 10,177 | 10,188 | 10,200 | 10,212 | 10,224 | 10,235 | 10,247 | 10,259 | 10,271 |
| 1060                                 | 10,282                               | 10,294 | 10,306 | 10,318 | 10,329 | 10,341 | 10,353 | 10,364 | 10,376 | 10,388 |
| 1070                                 | 10,400                               | 10,411 | 10,423 | 10,435 | 10,447 | 10,459 | 10,470 | 10,482 | 10,494 | 10,506 |
| 1080                                 | 10,517                               | 10,529 | 10,541 | 10,553 | 10,565 | 10,576 | 10,588 | 10,600 | 10,612 | 10,624 |
| 1090                                 | 10,635                               | 10,647 | 10,659 | 10,671 | 10,683 | 10,694 | 10,706 | 10,718 | 10,730 | 10,742 |
| 1100                                 | 10,754                               | 10,766 | 10,777 | 10,789 | 10,801 | 10,813 | 10,825 | 10,836 | 10,848 | 10,860 |
| 1110                                 | 10,872                               | 10,884 | 10,896 | 10,908 | 10,919 | 10,931 | 10,943 | 10,955 | 10,967 | 10,979 |
| 1120                                 | 10,991                               | 11,003 | 11,014 | 11,026 | 11,038 | 11,050 | 11,062 | 11,074 | 11,086 | 11,098 |
| 1130                                 | 11,110                               | 11,121 | 11,133 | 11,145 | 11,157 | 11,169 | 11,181 | 11,193 | 11,205 | 11,217 |
| 1140                                 | 11,229                               | 11,241 | 11,252 | 11,264 | 11,276 | 11,288 | 11,300 | 11,312 | 11,324 | 11,336 |
| 1150                                 | 11,348                               | 11,360 | 11,372 | 11,384 | 11,396 | 11,408 | 11,420 | 11,432 | 11,443 | 11,455 |
| 1160                                 | 11,467                               | 11,479 | 11,491 | 11,503 | 11,515 | 11,527 | 11,539 | 11,551 | 11,563 | 11,575 |

| Температура<br>рабочего<br>конца, °C | Т. э. д. с., мВ, для температуры, °C |        |        |        |        |        |        |        |        |        |
|--------------------------------------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                      | 0                                    | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
| 1170                                 | 11,587                               | 11,599 | 11,611 | 11,623 | 11,635 | 11,647 | 11,659 | 11,671 | 11,683 | 11,695 |
| 1180                                 | 11,707                               | 11,719 | 11,731 | 11,743 | 11,755 | 11,767 | 11,779 | 11,791 | 11,803 | 11,815 |
| 1190                                 | 11,827                               | 11,839 | 11,851 | 11,863 | 11,875 | 11,887 | 11,899 | 11,911 | 11,923 | 11,935 |
| 1200                                 | 11,947                               | 11,959 | 11,971 | 11,983 | 11,995 | 12,007 | 12,019 | 12,031 | 12,043 | 12,055 |
| 1210                                 | 12,067                               | 12,079 | 12,091 | 12,103 | 12,116 | 12,128 | 12,140 | 12,152 | 12,164 | 12,176 |
| 1220                                 | 12,188                               | 12,200 | 12,212 | 12,224 | 12,236 | 12,248 | 12,260 | 12,272 | 12,284 | 12,296 |
| 1230                                 | 12,308                               | 12,320 | 12,332 | 12,345 | 12,357 | 12,369 | 12,381 | 12,393 | 12,405 | 12,417 |
| 1240                                 | 12,429                               | 12,441 | 12,453 | 12,465 | 12,477 | 12,489 | 12,501 | 12,514 | 12,526 | 12,538 |
| 1250                                 | 12,550                               | 12,562 | 12,574 | 12,586 | 12,598 | 12,610 | 12,622 | 12,634 | 12,647 | 12,659 |
| 1260                                 | 12,671                               | 12,683 | 12,695 | 12,707 | 12,719 | 12,731 | 12,743 | 12,755 | 12,767 | 12,780 |
| 1270                                 | 12,792                               | 12,804 | 12,816 | 12,828 | 12,840 | 12,852 | 12,864 | 12,876 | 12,888 | 12,901 |
| 1280                                 | 12,913                               | 12,925 | 12,937 | 12,949 | 12,961 | 12,973 | 12,985 | 12,997 | 13,010 | 13,022 |
| 1290                                 | 13,034                               | 13,046 | 13,058 | 13,070 | 13,082 | 13,094 | 13,107 | 13,119 | 13,131 | 13,143 |
| 1300                                 | 13,155                               | 13,167 | 13,179 | 13,191 | 13,203 | 13,216 | 13,228 | 13,240 | 13,252 | 13,264 |
| 1310                                 | 13,276                               | 13,288 | 13,300 | 13,313 | 13,325 | 13,337 | 13,349 | 13,361 | 13,373 | 13,385 |
| 1320                                 | 13,397                               | 13,410 | 13,422 | 13,434 | 13,446 | 13,458 | 13,470 | 13,482 | 13,495 | 13,507 |
| 1330                                 | 13,519                               | 13,531 | 13,543 | 13,555 | 13,567 | 13,579 | 13,592 | 13,604 | 13,616 | 13,628 |
| 1340                                 | 13,640                               | 13,652 | 13,664 | 13,677 | 13,689 | 13,701 | 13,713 | 13,725 | 13,737 | 13,749 |
| 1350                                 | 13,761                               | 13,774 | 13,786 | 13,798 | 13,810 | 13,822 | 13,834 | 13,846 | 13,859 | 13,871 |
| 1360                                 | 13,883                               | 13,895 | 13,907 | 13,919 | 13,931 | 13,943 | 13,956 | 13,968 | 13,980 | 13,992 |
| 1370                                 | 14,004                               | 14,016 | 14,028 | 14,040 | 14,053 | 14,065 | 14,077 | 14,089 | 14,101 | 14,113 |
| 1380                                 | 14,125                               | 14,138 | 14,150 | 14,162 | 14,174 | 14,186 | 14,198 | 14,210 | 14,222 | 14,235 |
| 1390                                 | 14,247                               | 14,259 | 14,271 | 14,283 | 14,295 | 14,307 | 14,319 | 14,332 | 14,344 | 14,356 |
| 1400                                 | 14,368                               | 14,380 | 14,392 | 14,404 | 14,416 | 14,429 | 14,441 | 14,453 | 14,465 | 14,477 |
| 1410                                 | 14,489                               | 14,501 | 14,513 | 14,525 | 14,538 | 14,550 | 14,562 | 14,574 | 14,586 | 14,598 |
| 1420                                 | 14,610                               | 14,622 | 14,635 | 14,647 | 14,659 | 14,671 | 14,683 | 14,695 | 14,707 | 14,719 |
| 1430                                 | 14,731                               | 14,744 | 14,756 | 14,768 | 14,780 | 14,792 | 14,804 | 14,816 | 14,828 | 14,840 |
| 1440                                 | 14,852                               | 14,865 | 14,877 | 14,889 | 14,901 | 14,913 | 14,925 | 14,937 | 14,949 | 14,961 |
| 1450                                 | 14,973                               | 14,985 | 14,998 | 15,010 | 15,022 | 15,034 | 15,046 | 15,058 | 15,070 | 15,082 |
| 1460                                 | 15,094                               | 15,106 | 15,118 | 15,130 | 15,143 | 15,155 | 15,167 | 15,179 | 15,191 | 15,203 |



Таблица 7

Тип ТХА

## Номинальная статическая характеристика преобразования ХА (К)

| Температура<br>рабочего<br>конца, °С | Т. э. д. с., мВ, для температуры, °С |        |        |        |        |        |        |        |        |        |
|--------------------------------------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                      | 0                                    | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
| —270                                 | —6,458                               |        |        |        |        |        |        |        |        |        |
| —260                                 | —6,441                               |        |        |        |        |        |        |        |        |        |
| —250                                 | —6,404                               | —6,444 | —6,446 | —6,448 | —6,450 | —6,452 | —6,453 | —6,455 | —6,456 | —6,457 |
| —240                                 | —6,344                               | —6,408 | —6,413 | —6,417 | —6,421 | —6,425 | —6,429 | —6,432 | —6,435 | —6,438 |
| —230                                 | —6,262                               | —6,351 | —6,358 | —6,364 | —6,371 | —6,377 | —6,382 | —6,388 | —6,394 | —6,399 |
| —220                                 | —6,158                               | —6,271 | —6,280 | —6,289 | —6,297 | —6,306 | —6,314 | —6,322 | —6,329 | —6,337 |
| —210                                 | —6,035                               | —6,170 | —6,181 | —6,192 | —6,202 | —6,213 | —6,223 | —6,233 | —6,243 | —6,253 |
| —200                                 | —5,891                               | —6,048 | —6,061 | —6,074 | —6,087 | —6,099 | —6,111 | —6,123 | —6,135 | —6,147 |
| —190                                 | —5,730                               | —5,907 | —5,922 | —5,936 | —5,951 | —5,965 | —5,980 | —5,994 | —6,007 | —6,021 |
| —180                                 | —5,550                               | —5,747 | —5,764 | —5,780 | —5,796 | —5,812 | —5,828 | —5,844 | —5,860 | —5,876 |
| —170                                 | —5,354                               | —5,568 | —5,586 | —5,604 | —5,622 | —5,640 | —5,658 | —5,676 | —5,694 | —5,712 |
| —160                                 | —5,142                               | —5,374 | —5,394 | —5,414 | —5,434 | —5,454 | —5,474 | —5,493 | —5,512 | —5,531 |
| —150                                 | —4,914                               | —5,164 | —5,186 | —5,207 | —5,228 | —5,249 | —5,270 | —5,291 | —5,312 | —5,333 |
| —140                                 | —4,710                               | —4,937 | —4,960 | —4,983 | —5,006 | —5,029 | —5,052 | —5,075 | —5,098 | —5,120 |
| —130                                 | —4,670                               | —4,695 | —4,720 | —4,745 | —4,770 | —4,794 | —4,818 | —4,842 | —4,866 | —4,890 |
| —120                                 | —4,410                               | —4,436 | —4,462 | —4,488 | —4,514 | —4,540 | —4,566 | —4,592 | —4,618 | —4,644 |
| —110                                 | —4,138                               | —4,166 | —4,194 | —4,221 | —4,248 | —4,275 | —4,302 | —4,329 | —4,356 | —4,383 |
| —100                                 | —3,852                               | —3,881 | —3,910 | —3,939 | —3,968 | —3,997 | —4,026 | —4,054 | —4,082 | —4,110 |
| —90                                  | —3,553                               | —3,583 | —3,613 | —3,643 | —3,673 | —3,703 | —3,733 | —3,763 | —3,793 | —3,823 |
| —80                                  | —3,242                               | —3,274 | —3,305 | —3,336 | —3,367 | —3,398 | —3,429 | —3,460 | —3,491 | —3,522 |
| —70                                  | —2,920                               | —2,953 | —2,986 | —3,018 | —3,050 | —3,082 | —3,114 | —3,146 | —3,178 | —3,210 |
| —60                                  | —2,506                               | —2,620 | —2,654 | —2,688 | —2,722 | —2,755 | —2,788 | —2,821 | —2,854 | —2,887 |
| —50                                  | —2,243                               | —2,278 | —2,313 | —2,348 | —2,382 | —2,416 | —2,450 | —2,484 | —2,518 | —2,552 |
| —40                                  | —1,889                               | —1,925 | —1,961 | —1,997 | —2,033 | —2,068 | —2,103 | —2,138 | —2,173 | —2,208 |
| —30                                  | —1,527                               | —1,564 | —1,601 | —1,637 | —1,673 | —1,709 | —1,745 | —1,781 | —1,817 | —1,853 |
| —20                                  | —1,157                               | —1,194 | —1,231 | —1,268 | —1,305 | —1,342 | —1,379 | —1,416 | —1,453 | —1,490 |
| —10                                  | —0,777                               | —0,815 | —0,853 | —0,891 | —0,929 | —0,967 | —1,005 | —1,043 | —1,081 | —1,119 |
| 0                                    | —0,392                               | —0,431 | —0,470 | —0,509 | —0,548 | —0,587 | —0,625 | —0,663 | —0,701 | —0,739 |
| 0                                    | —0,000                               | —0,040 | —0,080 | —0,119 | —0,158 | —0,197 | —0,236 | —0,275 | —0,314 | —0,353 |
| 0                                    | 0,000                                | 0,039  | 0,079  | 0,119  | 0,158  | 0,198  | 0,238  | 0,277  | 0,317  | 0,357  |

| Температура<br>рабочего<br>конца, °C | Т. э. д. с., мВ, для температуры, °C |        |        |        |        |        |        |        |        |        |
|--------------------------------------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                      | 0                                    | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
| 10                                   | 0,397                                | 0,437  | 0,477  | 0,517  | 0,557  | 0,597  | 0,637  | 0,677  | 0,718  | 0,758  |
| 20                                   | 0,798                                | 0,838  | 0,879  | 0,919  | 0,960  | 1,000  | 1,041  | 1,081  | 1,122  | 1,162  |
| 30                                   | 1,203                                | 1,244  | 1,285  | 1,325  | 1,366  | 1,407  | 1,448  | 1,489  | 1,529  | 1,570  |
| 40                                   | 1,611                                | 1,652  | 1,693  | 1,734  | 1,776  | 1,817  | 1,858  | 1,899  | 1,940  | 1,981  |
| 50                                   | 2,022                                | 2,064  | 2,105  | 2,146  | 2,188  | 2,229  | 2,270  | 2,312  | 2,353  | 2,394  |
| 60                                   | 2,436                                | 2,477  | 2,519  | 2,560  | 2,601  | 2,643  | 2,684  | 2,726  | 2,767  | 2,809  |
| 70                                   | 2,850                                | 2,892  | 2,933  | 2,975  | 3,016  | 3,058  | 3,100  | 3,141  | 3,183  | 3,224  |
| 80                                   | 3,266                                | 3,307  | 3,349  | 3,390  | 3,432  | 3,473  | 3,515  | 3,556  | 3,598  | 3,639  |
| 90                                   | 3,681                                | 3,722  | 3,764  | 3,805  | 3,847  | 3,888  | 3,930  | 3,971  | 4,012  | 4,054  |
| 100                                  | 4,095                                | 4,137  | 4,178  | 4,219  | 4,261  | 4,302  | 4,343  | 4,384  | 4,426  | 4,467  |
| 110                                  | 4,508                                | 4,549  | 4,590  | 4,632  | 4,673  | 4,714  | 4,755  | 4,796  | 4,837  | 4,878  |
| 120                                  | 4,919                                | 4,960  | 5,001  | 5,042  | 5,083  | 5,124  | 5,164  | 5,205  | 5,246  | 5,287  |
| 130                                  | 5,327                                | 5,368  | 5,409  | 5,450  | 5,490  | 5,531  | 5,571  | 5,612  | 5,652  | 5,693  |
| 140                                  | 5,733                                | 5,774  | 5,814  | 5,855  | 5,895  | 5,936  | 5,976  | 6,016  | 6,057  | 6,097  |
| 150                                  | 6,137                                | 6,177  | 6,218  | 6,258  | 6,298  | 6,338  | 6,378  | 6,419  | 6,459  | 6,499  |
| 160                                  | 6,539                                | 6,579  | 6,619  | 6,659  | 6,699  | 6,739  | 6,779  | 6,819  | 6,859  | 6,899  |
| 170                                  | 6,939                                | 6,979  | 7,019  | 7,059  | 7,099  | 7,139  | 7,179  | 7,219  | 7,259  | 7,299  |
| 180                                  | 7,338                                | 7,378  | 7,418  | 7,458  | 7,498  | 7,538  | 7,578  | 7,618  | 7,658  | 7,697  |
| 190                                  | 7,737                                | 7,777  | 7,817  | 7,857  | 7,897  | 7,937  | 7,977  | 8,017  | 8,057  | 8,097  |
| 200                                  | 8,137                                | 8,177  | 8,217  | 8,257  | 8,297  | 8,337  | 8,377  | 8,417  | 8,457  | 8,497  |
| 210                                  | 8,537                                | 8,577  | 8,617  | 8,657  | 8,697  | 8,737  | 8,777  | 8,817  | 8,857  | 8,898  |
| 220                                  | 8,938                                | 8,978  | 9,018  | 9,058  | 9,099  | 9,139  | 9,179  | 9,220  | 9,260  | 9,300  |
| 230                                  | 9,341                                | 9,381  | 9,421  | 9,462  | 9,502  | 9,543  | 9,583  | 9,624  | 9,664  | 9,705  |
| 240                                  | 9,745                                | 9,786  | 9,826  | 9,867  | 9,907  | 9,948  | 9,989  | 10,029 | 10,070 | 10,111 |
| 250                                  | 10,151                               | 10,192 | 10,233 | 10,274 | 10,315 | 10,355 | 10,396 | 10,437 | 10,478 | 10,519 |
| 260                                  | 10,560                               | 10,600 | 10,641 | 10,682 | 10,723 | 10,764 | 10,805 | 10,846 | 10,887 | 10,928 |
| 270                                  | 10,969                               | 11,010 | 11,051 | 11,093 | 11,134 | 11,175 | 11,216 | 11,257 | 11,298 | 11,339 |
| 280                                  | 11,381                               | 11,422 | 11,463 | 11,504 | 11,546 | 11,587 | 11,628 | 11,669 | 11,711 | 11,752 |
| 290                                  | 11,793                               | 11,835 | 11,876 | 11,918 | 11,959 | 12,000 | 12,042 | 12,083 | 12,125 | 12,166 |
| 300                                  | 12,207                               | 12,249 | 12,290 | 12,332 | 12,373 | 12,415 | 12,456 | 12,498 | 12,539 | 12,581 |
| 310                                  | 12,623                               | 12,664 | 12,706 | 12,747 | 12,789 | 12,831 | 12,872 | 12,914 | 12,955 | 12,997 |
| 320                                  | 13,039                               | 13,080 | 13,122 | 13,164 | 13,205 | 13,247 | 13,289 | 13,331 | 13,372 | 13,414 |

| Температура<br>рабочего<br>конца, °С | Т. э. д. с., мВ, для температуры, °С |        |        |        |        |        |        |        |        |        |
|--------------------------------------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                      | 0                                    | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
| 330                                  | 13,456                               | 13,497 | 13,539 | 13,581 | 13,623 | 13,665 | 13,706 | 13,748 | 13,790 | 13,832 |
| 340                                  | 13,874                               | 13,915 | 13,957 | 13,999 | 14,041 | 14,083 | 14,125 | 14,167 | 14,208 | 14,250 |
| 350                                  | 14,292                               | 14,334 | 14,376 | 14,418 | 14,460 | 14,502 | 14,544 | 14,586 | 14,628 | 14,670 |
| 360                                  | 14,712                               | 14,754 | 14,796 | 14,838 | 14,880 | 14,922 | 14,964 | 15,006 | 15,048 | 15,090 |
| 370                                  | 15,132                               | 15,174 | 15,216 | 15,258 | 15,300 | 15,342 | 15,384 | 15,426 | 15,468 | 15,510 |
| 380                                  | 15,552                               | 15,594 | 15,636 | 15,679 | 15,721 | 15,763 | 15,805 | 15,847 | 15,889 | 15,931 |
| 390                                  | 15,974                               | 16,016 | 16,058 | 16,100 | 16,142 | 16,184 | 16,227 | 16,269 | 16,311 | 16,353 |
| 400                                  | 16,395                               | 16,438 | 16,480 | 16,522 | 16,564 | 16,607 | 16,649 | 16,691 | 16,733 | 16,776 |
| 410                                  | 16,818                               | 16,860 | 16,902 | 16,945 | 16,987 | 17,029 | 17,072 | 17,114 | 17,156 | 17,199 |
| 420                                  | 17,241                               | 17,283 | 17,326 | 17,368 | 17,410 | 17,453 | 17,495 | 17,537 | 17,580 | 17,622 |
| 430                                  | 17,664                               | 17,707 | 17,749 | 17,792 | 17,834 | 17,876 | 17,919 | 17,961 | 18,004 | 18,046 |
| 440                                  | 18,088                               | 18,131 | 18,173 | 18,216 | 18,258 | 18,301 | 18,343 | 18,385 | 18,428 | 18,470 |
| 450                                  | 18,513                               | 18,555 | 18,598 | 18,640 | 18,683 | 18,725 | 18,768 | 18,810 | 18,853 | 18,895 |
| 460                                  | 18,938                               | 18,980 | 19,023 | 19,065 | 19,108 | 19,150 | 19,193 | 19,235 | 19,278 | 19,320 |
| 470                                  | 19,363                               | 19,405 | 19,448 | 19,490 | 19,533 | 19,576 | 19,618 | 19,661 | 19,703 | 19,746 |
| 480                                  | 19,788                               | 19,831 | 19,873 | 19,916 | 19,959 | 20,001 | 20,044 | 20,086 | 20,129 | 20,172 |
| 490                                  | 20,214                               | 20,257 | 20,299 | 20,342 | 20,385 | 20,427 | 20,470 | 20,512 | 20,555 | 20,598 |
| 500                                  | 20,640                               | 20,683 | 20,725 | 20,768 | 20,811 | 20,853 | 20,896 | 20,938 | 20,981 | 21,024 |
| 510                                  | 21,066                               | 21,109 | 21,152 | 21,194 | 21,237 | 21,280 | 21,322 | 21,365 | 21,407 | 21,450 |
| 520                                  | 21,493                               | 21,535 | 21,578 | 21,621 | 21,663 | 21,706 | 21,749 | 21,791 | 21,834 | 21,876 |
| 530                                  | 21,919                               | 21,962 | 22,004 | 22,047 | 22,090 | 22,132 | 22,175 | 22,218 | 22,260 | 22,303 |
| 540                                  | 22,346                               | 22,388 | 22,431 | 22,473 | 22,516 | 22,559 | 22,601 | 22,644 | 22,687 | 22,729 |
| 550                                  | 22,772                               | 22,815 | 22,857 | 22,900 | 22,942 | 22,985 | 23,028 | 23,070 | 23,113 | 23,156 |
| 560                                  | 23,198                               | 23,241 | 23,284 | 23,326 | 23,369 | 23,411 | 23,454 | 23,497 | 23,539 | 23,582 |
| 570                                  | 23,624                               | 23,667 | 23,710 | 23,752 | 23,795 | 23,837 | 23,880 | 23,923 | 23,965 | 24,008 |
| 580                                  | 24,050                               | 24,093 | 24,136 | 24,178 | 24,221 | 24,263 | 24,306 | 24,348 | 24,391 | 24,434 |
| 590                                  | 24,476                               | 24,519 | 24,561 | 24,604 | 24,646 | 24,689 | 24,731 | 24,774 | 24,817 | 24,859 |
| 600                                  | 24,902                               | 24,944 | 24,987 | 25,029 | 25,072 | 25,114 | 25,157 | 25,199 | 25,242 | 25,284 |
| 610                                  | 25,327                               | 25,369 | 25,412 | 25,454 | 25,497 | 25,539 | 25,582 | 25,624 | 25,666 | 25,709 |
| 620                                  | 25,751                               | 25,794 | 25,836 | 25,879 | 25,921 | 25,964 | 26,006 | 26,048 | 26,091 | 26,133 |
| 630                                  | 26,176                               | 26,218 | 26,260 | 26,303 | 26,345 | 26,387 | 26,430 | 26,472 | 26,515 | 26,557 |
| 640                                  | 26,599                               | 26,642 | 26,684 | 26,726 | 26,769 | 26,811 | 26,853 | 26,896 | 26,938 | 26,980 |

| Температура<br>рабочего<br>конца, °С | Т. э. д. с., мВ, для температуры, °С |        |        |        |        |        |        |        |        |        |
|--------------------------------------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                      | 0                                    | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
| 650                                  | 27,022                               | 27,065 | 27,107 | 27,149 | 27,192 | 27,234 | 27,276 | 27,318 | 27,361 | 27,403 |
| 660                                  | 27,445                               | 27,487 | 27,529 | 27,572 | 27,614 | 27,656 | 27,698 | 27,740 | 27,783 | 27,825 |
| 670                                  | 27,867                               | 27,909 | 27,951 | 27,993 | 28,035 | 28,078 | 28,120 | 28,162 | 28,204 | 28,246 |
| 680                                  | 28,288                               | 28,330 | 28,372 | 28,414 | 28,456 | 28,498 | 28,540 | 28,583 | 28,625 | 28,667 |
| 690                                  | 28,709                               | 28,751 | 28,793 | 28,835 | 28,877 | 28,919 | 28,961 | 29,002 | 29,044 | 29,086 |
| 700                                  | 29,128                               | 29,170 | 29,212 | 29,254 | 29,296 | 29,338 | 29,380 | 29,422 | 29,464 | 29,505 |
| 710                                  | 29,547                               | 29,589 | 29,631 | 29,673 | 29,715 | 29,756 | 29,798 | 29,840 | 29,882 | 29,924 |
| 720                                  | 29,965                               | 30,007 | 30,049 | 30,091 | 30,132 | 30,174 | 30,216 | 30,257 | 30,299 | 30,341 |
| 730                                  | 30,383                               | 30,424 | 30,466 | 30,508 | 30,549 | 30,591 | 30,632 | 30,674 | 30,716 | 30,757 |
| 740                                  | 30,799                               | 30,840 | 30,882 | 30,924 | 30,965 | 31,007 | 31,048 | 31,090 | 31,131 | 31,173 |
| 750                                  | 31,214                               | 31,256 | 31,297 | 31,339 | 31,380 | 31,422 | 31,463 | 31,504 | 31,546 | 31,587 |
| 760                                  | 31,629                               | 31,670 | 31,712 | 31,753 | 31,794 | 31,836 | 31,877 | 31,918 | 31,960 | 32,001 |
| 770                                  | 32,042                               | 32,084 | 32,125 | 32,166 | 32,207 | 32,249 | 32,290 | 32,331 | 32,372 | 32,414 |
| 780                                  | 32,455                               | 32,496 | 32,537 | 32,578 | 32,619 | 32,661 | 32,702 | 32,743 | 32,784 | 32,825 |
| 790                                  | 32,866                               | 32,907 | 32,948 | 32,990 | 33,031 | 33,072 | 33,113 | 33,154 | 33,195 | 33,236 |
| 800                                  | 33,277                               | 33,318 | 33,359 | 33,400 | 33,441 | 33,482 | 33,523 | 33,564 | 33,604 | 33,645 |
| 810                                  | 33,686                               | 33,727 | 33,768 | 33,809 | 33,850 | 33,891 | 33,931 | 33,972 | 34,013 | 34,054 |
| 820                                  | 34,095                               | 34,136 | 34,176 | 34,217 | 34,258 | 34,299 | 34,339 | 34,380 | 34,421 | 34,461 |
| 830                                  | 34,502                               | 34,543 | 34,583 | 34,624 | 34,665 | 34,705 | 34,746 | 34,787 | 34,827 | 34,868 |
| 840                                  | 34,909                               | 34,949 | 34,990 | 35,030 | 35,071 | 35,111 | 35,152 | 35,192 | 35,233 | 35,273 |
| 850                                  | 35,314                               | 35,354 | 35,395 | 35,435 | 35,476 | 35,516 | 35,557 | 35,597 | 35,637 | 35,678 |
| 860                                  | 35,718                               | 35,758 | 35,799 | 35,839 | 35,880 | 35,920 | 35,960 | 36,000 | 36,041 | 36,081 |
| 870                                  | 36,121                               | 36,162 | 36,202 | 36,242 | 36,282 | 36,323 | 36,363 | 36,403 | 36,443 | 36,483 |
| 880                                  | 36,524                               | 36,564 | 36,604 | 36,644 | 36,684 | 36,724 | 36,764 | 36,804 | 36,844 | 36,885 |
| 890                                  | 36,925                               | 36,965 | 37,005 | 37,045 | 37,085 | 37,125 | 37,165 | 37,205 | 37,245 | 37,285 |
| 900                                  | 37,325                               | 37,365 | 37,405 | 37,445 | 37,484 | 37,524 | 37,564 | 37,604 | 37,644 | 37,684 |
| 910                                  | 37,724                               | 37,764 | 37,803 | 37,843 | 37,883 | 37,923 | 37,963 | 38,002 | 38,042 | 38,082 |
| 920                                  | 38,122                               | 38,162 | 38,201 | 38,241 | 38,281 | 38,320 | 38,360 | 38,400 | 38,439 | 38,479 |
| 930                                  | 38,519                               | 38,558 | 38,598 | 38,638 | 38,677 | 38,717 | 38,756 | 38,796 | 38,836 | 38,875 |
| 940                                  | 38,915                               | 38,954 | 38,994 | 39,033 | 39,073 | 39,112 | 39,152 | 39,191 | 39,231 | 39,270 |
| 950                                  | 39,310                               | 39,349 | 39,388 | 39,428 | 39,467 | 39,507 | 39,546 | 39,585 | 39,625 | 39,664 |
| 960                                  | 39,703                               | 39,743 | 39,782 | 39,821 | 39,861 | 39,900 | 39,939 | 39,979 | 40,018 | 40,057 |
| 970                                  | 40,096                               | 40,136 | 40,175 | 40,214 | 40,253 | 40,292 | 40,332 | 40,371 | 40,410 | 40,449 |

| Температура<br>рабочего<br>конца, °C | Т. э. д. с., мВ, для температуры, °C |        |        |        |        |        |        |        |        |        |
|--------------------------------------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                      | 0                                    | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
| 980                                  | 40,488                               | 40,527 | 40,566 | 40,605 | 40,645 | 40,684 | 40,723 | 40,762 | 40,801 | 40,840 |
| 990                                  | 40,879                               | 40,918 | 40,957 | 40,996 | 41,035 | 41,074 | 41,113 | 41,152 | 41,191 | 41,230 |
| 1000                                 | 41,269                               | 41,308 | 41,347 | 41,385 | 41,424 | 41,463 | 41,502 | 41,541 | 41,580 | 41,619 |
| 1010                                 | 41,657                               | 41,696 | 41,735 | 41,774 | 41,813 | 41,851 | 41,890 | 41,929 | 41,968 | 42,006 |
| 1020                                 | 42,045                               | 42,084 | 42,123 | 42,161 | 42,200 | 42,239 | 42,277 | 42,316 | 42,355 | 42,393 |
| 1030                                 | 42,432                               | 42,470 | 42,509 | 42,548 | 42,586 | 42,625 | 42,663 | 42,702 | 42,740 | 42,779 |
| 1040                                 | 42,817                               | 42,856 | 42,894 | 42,933 | 42,971 | 43,010 | 43,048 | 43,087 | 43,125 | 43,164 |
| 1050                                 | 43,202                               | 43,240 | 43,279 | 43,317 | 43,356 | 43,394 | 43,432 | 43,471 | 43,509 | 43,547 |
| 1060                                 | 43,585                               | 43,624 | 43,662 | 43,700 | 43,739 | 43,777 | 43,815 | 43,853 | 43,891 | 43,930 |
| 1070                                 | 43,968                               | 44,006 | 44,044 | 44,082 | 44,121 | 44,159 | 44,197 | 44,235 | 44,273 | 44,311 |
| 1080                                 | 44,349                               | 44,387 | 44,425 | 44,463 | 44,501 | 44,539 | 44,577 | 44,615 | 44,653 | 44,691 |
| 1090                                 | 44,729                               | 44,767 | 44,805 | 44,843 | 44,881 | 44,919 | 44,957 | 44,995 | 45,033 | 45,070 |
| 1100                                 | 45,108                               | 45,146 | 45,184 | 45,222 | 45,260 | 45,297 | 45,335 | 45,373 | 45,411 | 45,448 |
| 1110                                 | 45,486                               | 45,524 | 45,561 | 45,599 | 45,637 | 45,675 | 45,712 | 45,750 | 45,787 | 45,825 |
| 1120                                 | 45,863                               | 45,900 | 45,938 | 45,975 | 46,013 | 46,051 | 46,088 | 46,126 | 46,163 | 46,201 |
| 1130                                 | 46,238                               | 46,275 | 46,313 | 46,350 | 46,388 | 46,425 | 46,463 | 46,500 | 46,537 | 46,575 |
| 1140                                 | 46,612                               | 46,649 | 46,687 | 46,724 | 46,761 | 46,799 | 46,836 | 46,873 | 46,910 | 46,948 |
| 1150                                 | 46,985                               | 47,022 | 47,059 | 47,096 | 47,134 | 47,171 | 47,208 | 47,245 | 47,282 | 47,319 |
| 1160                                 | 47,356                               | 47,393 | 47,430 | 47,467 | 47,504 | 47,541 | 47,578 | 47,615 | 47,652 | 47,689 |
| 1170                                 | 47,726                               | 47,763 | 47,800 | 47,837 | 47,874 | 47,911 | 47,948 | 47,985 | 48,021 | 48,058 |
| 1180                                 | 48,095                               | 48,132 | 48,169 | 48,205 | 48,242 | 48,279 | 48,316 | 48,352 | 48,389 | 48,426 |
| 1190                                 | 48,462                               | 48,499 | 48,536 | 48,572 | 48,609 | 48,645 | 48,682 | 48,718 | 48,755 | 48,792 |
| 1200                                 | 48,828                               | 48,865 | 48,901 | 48,937 | 48,974 | 49,010 | 49,047 | 49,083 | 49,120 | 49,156 |
| 1210                                 | 49,192                               | 49,229 | 49,265 | 49,301 | 49,338 | 49,374 | 49,410 | 49,446 | 49,483 | 49,519 |
| 1220                                 | 49,555                               | 49,591 | 49,627 | 49,663 | 49,700 | 49,736 | 49,772 | 49,808 | 49,844 | 49,880 |
| 1230                                 | 49,916                               | 49,952 | 49,988 | 50,024 | 50,060 | 50,096 | 50,132 | 50,168 | 50,204 | 50,240 |
| 1240                                 | 50,276                               | 50,311 | 50,347 | 50,383 | 50,419 | 50,455 | 50,491 | 50,526 | 50,562 | 50,598 |
| 1250                                 | 50,633                               | 50,669 | 50,705 | 50,741 | 50,776 | 50,812 | 50,847 | 50,883 | 50,919 | 50,954 |
| 1260                                 | 50,990                               | 51,025 | 51,061 | 51,096 | 51,132 | 51,167 | 51,203 | 51,238 | 51,274 | 51,309 |
| 1270                                 | 51,344                               | 51,380 | 51,415 | 51,450 | 51,486 | 51,521 | 51,556 | 51,592 | 51,627 | 51,662 |
| 1280                                 | 51,697                               | 51,733 | 51,768 | 51,803 | 51,838 | 51,873 | 51,908 | 51,943 | 51,979 | 52,014 |
| 1290                                 | 52,049                               | 52,084 | 52,119 | 52,154 | 52,189 | 52,224 | 52,259 | 52,294 | 52,329 | 52,364 |
| 1300                                 | 52,398                               |        |        |        |        |        |        |        |        |        |

**Тип ТХК**  
**Номинальная статическая характеристика преобразований**  
**ХК (L)**

| Температура<br>рабочего<br>конца, °С | Т. э. д. с., мВ, для температуры, °С |        |        |        |        |        |        |        |        |        |
|--------------------------------------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                      | 0                                    | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
| —200                                 | —9,488                               | —9,515 | —9,542 | —9,569 | —9,596 | —9,622 | —9,648 | —9,673 | —9,699 | —9,724 |
| —190                                 | —9,203                               | —9,233 | —9,262 | —9,291 | —9,320 | —9,349 | —9,377 | —9,405 | —9,433 | —9,461 |
| —180                                 | —8,894                               | —8,926 | —8,958 | —8,989 | —9,020 | —9,051 | —9,082 | —9,113 | —9,143 | —9,173 |
| —170                                 | —8,562                               | —8,596 | —8,630 | —8,664 | —8,697 | —8,731 | —8,764 | —8,797 | —8,829 | —8,862 |
| —160                                 | —8,207                               | —8,243 | —8,280 | —8,316 | —8,351 | —8,387 | —8,422 | —8,458 | —8,492 | —8,527 |
| —150                                 | —7,830                               | —7,869 | —7,907 | —7,945 | —7,983 | —8,021 | —8,059 | —8,096 | —8,133 | —8,170 |
| —140                                 | —7,432                               | —7,473 | —7,513 | —7,554 | —7,594 | —7,634 | —7,673 | —7,713 | —7,752 | —7,791 |
| —130                                 | —7,013                               | —7,056 | —7,099 | —7,141 | —7,183 | —7,225 | —7,267 | —7,308 | —7,350 | —7,391 |
| —120                                 | —6,575                               | —6,619 | —6,664 | —6,708 | —6,752 | —6,796 | —6,840 | —6,884 | —6,927 | —6,970 |
| —110                                 | —6,117                               | —6,164 | —6,210 | —6,256 | —6,302 | —6,348 | —6,394 | —6,439 | —6,485 | —6,530 |
| —100                                 | —5,641                               | —5,689 | —5,737 | —5,785 | —5,833 | —5,881 | —5,929 | —5,976 | —6,023 | —6,070 |
| — 90                                 | —5,146                               | —5,197 | —5,247 | —5,297 | —5,346 | —5,396 | —5,445 | —5,494 | —5,543 | —5,592 |
| — 80                                 | —4,635                               | —4,687 | —4,739 | —4,790 | —4,842 | —4,893 | —4,944 | —4,995 | —5,046 | —5,096 |
| — 70                                 | —4,107                               | —4,161 | —4,214 | —4,267 | —4,320 | —4,373 | —4,426 | —4,478 | —4,531 | —4,583 |
| — 60                                 | —3,563                               | —3,618 | —3,673 | —3,728 | —3,783 | —3,837 | —3,892 | —3,946 | —4,000 | —4,054 |
| — 50                                 | —3,004                               | —3,061 | —3,117 | —3,174 | —3,230 | —3,286 | —3,342 | —3,397 | —3,453 | —3,508 |
| — 40                                 | —2,431                               | —2,489 | —2,546 | —2,604 | —2,662 | —2,719 | —2,777 | —2,834 | —2,891 | —2,948 |
| — 30                                 | —1,843                               | —1,902 | —1,961 | —2,021 | —2,080 | —2,138 | —2,197 | —2,256 | —2,314 | —2,372 |
| — 20                                 | —1,241                               | —1,302 | —1,363 | —1,423 | —1,483 | —1,544 | —1,604 | —1,664 | —1,723 | —1,783 |
| — 10                                 | —0,627                               | —0,689 | —0,751 | —0,813 | —0,874 | —0,936 | —0,997 | —1,058 | —1,119 | —1,180 |
| 0                                    | 0                                    | —0,063 | —0,126 | —0,189 | —0,252 | —0,315 | —0,378 | —0,440 | —0,503 | —0,565 |
| 0                                    | 0                                    | 0,063  | 0,127  | 0,190  | 0,254  | 0,318  | 0,382  | 0,446  | 0,510  | 0,574  |
| 10                                   | 0,639                                | 0,703  | 0,768  | 0,833  | 0,898  | 0,963  | 1,028  | 1,093  | 1,158  | 1,224  |
| 20                                   | 1,289                                | 1,355  | 1,421  | 1,487  | 1,553  | 1,619  | 1,685  | 1,751  | 1,818  | 1,884  |
| 30                                   | 1,951                                | 2,018  | 2,085  | 2,152  | 2,219  | 2,286  | 2,353  | 2,420  | 2,488  | 2,556  |

| Температура<br>рабочего<br>конца, °С | Т. э. д. с., мВ, для температуры, °С |        |        |        |        |        |        |        |        |        |
|--------------------------------------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                      | 0                                    | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
| 40                                   | 2,623                                | 2,691  | 2,759  | 2,827  | 2,895  | 2,963  | 3,032  | 3,100  | 3,168  | 3,237  |
| 50                                   | 3,306                                | 3,375  | 3,443  | 3,512  | 3,582  | 3,651  | 3,720  | 3,789  | 3,859  | 3,928  |
| 60                                   | 3,998                                | 4,068  | 4,138  | 4,208  | 4,278  | 4,348  | 4,418  | 4,489  | 4,559  | 4,630  |
| 70                                   | 4,700                                | 4,771  | 4,842  | 4,913  | 4,984  | 5,055  | 5,126  | 5,197  | 5,268  | 5,340  |
| 80                                   | 5,411                                | 5,483  | 5,555  | 5,626  | 5,698  | 5,770  | 5,842  | 5,914  | 5,987  | 6,059  |
| 90                                   | 6,131                                | 6,204  | 6,276  | 6,349  | 6,422  | 6,495  | 6,567  | 6,640  | 6,714  | 6,787  |
| 100                                  | 6,860                                | 6,933  | 7,007  | 7,080  | 7,154  | 7,227  | 7,301  | 7,375  | 7,449  | 7,523  |
| 110                                  | 7,597                                | 7,671  | 7,745  | 7,819  | 7,894  | 7,968  | 8,043  | 8,117  | 8,192  | 8,267  |
| 120                                  | 8,342                                | 8,417  | 8,492  | 8,567  | 8,642  | 8,717  | 8,792  | 8,868  | 8,943  | 9,019  |
| 130                                  | 9,094                                | 9,170  | 9,246  | 9,321  | 9,397  | 9,473  | 9,549  | 9,625  | 9,702  | 9,778  |
| 140                                  | 9,854                                | 9,931  | 10,007 | 10,084 | 10,160 | 10,237 | 10,314 | 10,391 | 10,467 | 10,544 |
| 150                                  | 10,621                               | 10,699 | 10,776 | 10,853 | 10,930 | 11,008 | 11,085 | 11,163 | 11,240 | 11,318 |
| 160                                  | 11,396                               | 11,473 | 11,551 | 11,629 | 11,707 | 11,785 | 11,863 | 11,942 | 12,020 | 12,098 |
| 170                                  | 12,176                               | 12,255 | 12,333 | 12,412 | 12,491 | 12,569 | 12,648 | 12,727 | 12,806 | 12,885 |
| 180                                  | 12,964                               | 13,043 | 13,122 | 13,201 | 13,281 | 13,360 | 13,439 | 13,519 | 13,598 | 13,678 |
| 190                                  | 13,758                               | 13,837 | 13,917 | 13,997 | 14,077 | 14,157 | 14,237 | 14,317 | 14,397 | 14,477 |
| 200                                  | 14,557                               | 14,638 | 14,718 | 14,798 | 14,879 | 14,959 | 15,040 | 15,121 | 15,201 | 15,282 |
| 210                                  | 15,363                               | 15,444 | 15,525 | 15,606 | 15,687 | 15,768 | 15,849 | 15,930 | 16,011 | 16,093 |
| 220                                  | 16,174                               | 16,255 | 16,337 | 16,418 | 16,500 | 16,582 | 16,663 | 16,745 | 16,827 | 16,909 |
| 230                                  | 16,990                               | 17,072 | 17,154 | 17,236 | 17,319 | 17,401 | 17,483 | 17,565 | 17,647 | 17,730 |
| 240                                  | 17,812                               | 17,895 | 17,977 | 18,060 | 18,142 | 18,225 | 18,308 | 18,390 | 18,473 | 18,556 |
| 250                                  | 18,639                               | 18,722 | 18,805 | 18,888 | 18,971 | 19,054 | 19,137 | 19,220 | 19,304 | 19,387 |
| 260                                  | 19,470                               | 19,554 | 19,637 | 19,721 | 19,804 | 19,888 | 19,971 | 20,055 | 20,139 | 20,223 |
| 270                                  | 20,306                               | 20,390 | 20,474 | 20,558 | 20,642 | 20,726 | 20,810 | 20,894 | 20,978 | 21,062 |
| 280                                  | 21,147                               | 21,231 | 21,315 | 21,400 | 21,484 | 21,568 | 21,653 | 21,737 | 21,822 | 21,906 |
| 290                                  | 21,991                               | 22,076 | 22,160 | 22,245 | 22,330 | 22,415 | 22,500 | 22,585 | 22,669 | 22,754 |
| 300                                  | 22,839                               | 22,924 | 23,010 | 23,095 | 23,180 | 23,265 | 23,350 | 23,435 | 23,521 | 23,606 |
| 310                                  | 23,691                               | 23,777 | 23,862 | 23,948 | 24,033 | 24,119 | 24,204 | 24,290 | 24,375 | 24,461 |
| 320                                  | 24,547                               | 24,633 | 24,718 | 24,804 | 24,890 | 24,976 | 25,062 | 25,148 | 25,234 | 25,319 |

| Температура<br>рабочего<br>конца, °C | Т. э. д. с., мВ, для температуры, °C |        |        |        |        |        |        |        |        |        |
|--------------------------------------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                      | 0                                    | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
| 330                                  | 25,405                               | 25,492 | 25,578 | 25,664 | 25,750 | 25,836 | 25,922 | 26,008 | 26,095 | 26,181 |
| 340                                  | 26,267                               | 26,353 | 26,440 | 26,526 | 26,613 | 26,699 | 26,786 | 26,872 | 26,958 | 27,045 |
| 350                                  | 27,132                               | 27,218 | 27,305 | 27,391 | 27,478 | 27,565 | 27,652 | 27,738 | 27,825 | 27,912 |
| 360                                  | 27,999                               | 28,085 | 28,172 | 28,259 | 28,346 | 28,433 | 28,520 | 28,607 | 28,694 | 28,781 |
| 370                                  | 28,868                               | 28,955 | 29,042 | 29,129 | 29,216 | 29,303 | 29,391 | 29,478 | 29,565 | 29,652 |
| 380                                  | 29,739                               | 29,827 | 29,914 | 30,001 | 30,089 | 30,176 | 30,263 | 30,351 | 30,438 | 30,525 |
| 390                                  | 30,613                               | 30,700 | 30,788 | 30,875 | 30,963 | 31,050 | 31,138 | 31,225 | 31,313 | 31,400 |
| 400                                  | 31,488                               | 31,576 | 31,663 | 31,751 | 31,838 | 31,926 | 32,014 | 32,101 | 32,189 | 32,277 |
| 410                                  | 32,365                               | 32,452 | 32,540 | 32,628 | 32,716 | 32,803 | 32,891 | 32,979 | 33,067 | 33,155 |
| 420                                  | 33,243                               | 33,330 | 33,418 | 33,506 | 33,594 | 33,682 | 33,770 | 33,858 | 33,946 | 34,034 |
| 430                                  | 34,122                               | 34,210 | 34,297 | 34,385 | 34,473 | 34,561 | 34,649 | 34,737 | 34,825 | 34,914 |
| 440                                  | 35,002                               | 35,090 | 35,178 | 35,266 | 35,354 | 35,442 | 35,530 | 35,618 | 35,706 | 35,794 |
| 450                                  | 35,882                               | 35,970 | 36,058 | 36,147 | 36,235 | 36,323 | 36,411 | 36,499 | 36,587 | 36,675 |
| 460                                  | 36,764                               | 36,852 | 36,940 | 37,028 | 37,116 | 37,204 | 37,293 | 37,381 | 37,469 | 37,557 |
| 470                                  | 37,645                               | 37,734 | 37,822 | 37,910 | 37,998 | 38,086 | 38,175 | 38,263 | 38,351 | 38,439 |
| 480                                  | 38,527                               | 38,616 | 38,704 | 38,792 | 38,880 | 38,968 | 39,057 | 39,145 | 39,233 | 39,321 |
| 490                                  | 39,410                               | 39,498 | 39,586 | 39,674 | 39,762 | 39,851 | 39,939 | 40,027 | 40,115 | 40,204 |
| 500                                  | 40,292                               | 40,380 | 40,468 | 40,556 | 40,645 | 40,733 | 40,821 | 40,909 | 40,998 | 41,086 |
| 510                                  | 41,174                               | 41,262 | 41,350 | 41,439 | 41,527 | 41,615 | 41,703 | 41,791 | 41,880 | 41,968 |
| 520                                  | 42,056                               | 42,144 | 42,232 | 42,320 | 42,409 | 42,497 | 42,585 | 42,673 | 42,761 | 42,850 |
| 530                                  | 42,938                               | 43,026 | 43,114 | 43,202 | 43,290 | 43,378 | 43,467 | 43,555 | 43,643 | 43,731 |
| 540                                  | 43,819                               | 43,907 | 43,995 | 44,083 | 44,172 | 44,260 | 44,348 | 44,436 | 44,524 | 44,612 |
| 550                                  | 44,700                               | 44,788 | 44,876 | 44,964 | 45,052 | 45,140 | 45,228 | 45,317 | 45,405 | 45,493 |
| 560                                  | 45,581                               | 45,669 | 45,757 | 45,845 | 45,933 | 46,021 | 46,109 | 46,197 | 46,285 | 46,373 |
| 570                                  | 46,461                               | 46,549 | 46,637 | 46,725 | 46,813 | 46,901 | 46,989 | 47,077 | 47,165 | 47,253 |
| 580                                  | 47,340                               | 47,428 | 47,516 | 47,604 | 47,692 | 47,780 | 47,868 | 47,956 | 48,044 | 48,132 |
| 590                                  | 48,220                               | 48,307 | 48,395 | 48,483 | 48,571 | 48,659 | 48,747 | 48,835 | 48,923 | 49,010 |
| 600                                  | 49,098                               | 49,186 | 49,274 | 49,362 | 49,450 | 49,537 | 49,625 | 49,713 | 49,801 | 49,889 |
| 610                                  | 49,976                               | 50,064 | 50,152 | 50,240 | 50,328 | 50,415 | 50,503 | 50,591 | 50,679 | 50,766 |

| Температура<br>рабочего<br>конца, °С | Т. 9. Д. С., мВ, для температуры, °С |        |        |        |        |        |        |        |        |        |
|--------------------------------------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                      | 0                                    | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
| 620                                  | 50,854                               | 50,942 | 51,029 | 51,117 | 51,205 | 51,293 | 51,380 | 51,468 | 51,556 | 51,643 |
| 630                                  | 51,731                               | 51,819 | 51,907 | 51,994 | 52,082 | 52,170 | 52,257 | 52,345 | 52,433 | 52,520 |
| 640                                  | 52,608                               | 52,695 | 52,783 | 52,871 | 52,958 | 53,046 | 53,134 | 53,221 | 53,309 | 53,396 |
| 650                                  | 53,484                               | 53,572 | 53,659 | 53,747 | 53,834 | 53,922 | 54,009 | 54,097 | 54,184 | 54,272 |
| 660                                  | 54,360                               | 54,447 | 54,535 | 54,622 | 54,710 | 54,797 | 54,885 | 54,972 | 55,060 | 55,147 |
| 670                                  | 55,235                               | 55,322 | 55,410 | 55,497 | 55,584 | 55,672 | 55,759 | 55,847 | 55,934 | 56,022 |
| 680                                  | 56,109                               | 56,196 | 56,284 | 56,371 | 56,459 | 56,546 | 56,633 | 56,721 | 56,808 | 56,895 |
| 690                                  | 56,983                               | 57,070 | 57,157 | 57,245 | 57,332 | 57,419 | 57,507 | 57,594 | 57,681 | 57,768 |
| 700                                  | 57,856                               | 57,943 | 58,030 | 58,117 | 58,205 | 58,292 | 58,379 | 58,466 | 58,553 | 58,640 |
| 710                                  | 58,728                               | 58,815 | 58,902 | 58,989 | 59,076 | 59,163 | 59,250 | 59,337 | 59,424 | 59,511 |
| 720                                  | 59,598                               | 59,685 | 59,772 | 59,859 | 59,946 | 60,033 | 60,120 | 60,207 | 60,294 | 60,381 |
| 730                                  | 60,468                               | 60,554 | 60,641 | 60,728 | 60,815 | 60,901 | 60,988 | 61,075 | 61,162 | 61,248 |
| 740                                  | 61,335                               | 61,421 | 61,508 | 61,595 | 61,681 | 61,768 | 61,854 | 61,941 | 62,027 | 62,114 |
| 750                                  | 62,200                               | 62,286 | 62,373 | 62,459 | 62,545 | 62,632 | 62,718 | 62,804 | 62,890 | 62,976 |
| 760                                  | 63,062                               | 63,148 | 63,234 | 63,320 | 63,406 | 63,492 | 63,578 | 63,664 | 63,750 | 63,835 |
| 770                                  | 63,921                               | 64,007 | 64,092 | 64,178 | 64,264 | 64,349 | 64,435 | 64,520 | 64,605 | 64,691 |
| 780                                  | 64,776                               | 64,861 | 64,946 | 65,031 | 65,116 | 65,201 | 65,286 | 65,371 | 65,456 | 65,541 |
| 790                                  | 65,626                               | 65,710 | 65,795 | 65,879 | 65,964 | 66,048 | 66,133 | 66,217 | 66,301 | 66,385 |
| 800                                  | 66,469                               | 66,553 | 66,637 | 66,721 | 66,805 | 66,888 | 66,972 | 67,055 | 67,139 | 67,222 |

## Тип ТМК

## Номинальная статическая характеристика преобразования МК (М)

| Температура<br>рабочего<br>конца, °С | Т. э. д. с., мВ, для температуры, °С |        |        |        |        |        |        |        |        |        |
|--------------------------------------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                      | 0                                    | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
| —200                                 | —6,153                               |        |        |        |        |        |        |        |        |        |
| —190                                 | —5,975                               | —5,993 | —6,011 | —6,029 | —6,047 | —6,065 | —6,083 | —6,101 | —6,119 | —6,136 |
| —180                                 | —5,781                               | —5,801 | —5,821 | —5,841 | —5,861 | —5,880 | —5,899 | —5,918 | —5,937 | —5,956 |
| —170                                 | —5,572                               | —5,593 | —5,614 | —5,635 | —5,656 | —5,677 | —5,698 | —5,719 | —5,740 | —5,761 |
| —160                                 | —5,349                               | —5,372 | —5,395 | —5,418 | —5,440 | —5,462 | —5,484 | —5,506 | —5,528 | —5,550 |
| —150                                 | —5,111                               | —5,135 | —5,159 | —5,183 | —5,207 | —5,231 | —5,255 | —5,279 | —5,303 | —5,326 |
| —140                                 | —4,859                               | —4,885 | —4,911 | —4,936 | —4,961 | —4,986 | —5,011 | —5,036 | —5,061 | —5,086 |
| —130                                 | —4,593                               | —4,620 | —4,647 | —4,674 | —4,701 | —4,728 | —4,755 | —4,781 | —4,807 | —4,833 |
| —120                                 | —4,313                               | —4,341 | —4,369 | —4,397 | —4,425 | —4,453 | —4,481 | —4,509 | —4,537 | —4,565 |
| —110                                 | —4,020                               | —4,050 | —4,080 | —4,110 | —4,139 | —4,168 | —4,197 | —4,226 | —4,255 | —4,284 |
| —100                                 | —3,715                               | —3,746 | —3,777 | —3,808 | —3,839 | —3,870 | —3,900 | —3,930 | —3,960 | —3,990 |
| —90                                  | —3,396                               | —3,428 | —3,460 | —3,492 | —3,524 | —3,566 | —3,588 | —3,620 | —3,652 | —3,684 |
| —80                                  | —3,065                               | —3,099 | —3,132 | —3,165 | —3,198 | —3,231 | —3,264 | —3,297 | —3,330 | —3,363 |
| —70                                  | —2,722                               | —2,757 | —2,792 | —2,827 | —2,861 | —2,895 | —2,929 | —2,963 | —2,997 | —3,031 |
| —60                                  | —2,367                               | —2,403 | —2,439 | —2,475 | —2,511 | —2,547 | —2,582 | —2,617 | —2,652 | —2,687 |
| —50                                  | —2,000                               | —2,037 | —2,074 | —2,111 | —2,148 | —2,185 | —2,222 | —2,259 | —2,295 | —2,331 |
| —40                                  | —1,622                               | —1,660 | —1,698 | —1,736 | —1,774 | —1,812 | —1,850 | —1,888 | —1,926 | —1,963 |
| —30                                  | —1,232                               | —1,271 | —1,310 | —1,349 | —1,388 | —1,427 | —1,466 | —1,505 | —1,544 | —1,583 |
| —20                                  | —0,832                               | —0,872 | —0,912 | —0,952 | —0,992 | —1,032 | —1,072 | —1,112 | —1,152 | —1,192 |
| —10                                  | —0,421                               | —0,463 | —0,504 | —0,545 | —0,586 | —0,627 | —0,668 | —0,709 | —0,750 | —0,791 |
| — 0                                  | 0,000                                | —0,043 | —0,085 | —0,127 | —0,169 | —0,211 | —0,253 | —0,295 | —0,337 | —0,379 |
| 0                                    | 0,000                                | 0,043  | 0,086  | 0,129  | 0,172  | 0,215  | 0,258  | 0,301  | 0,344  | 0,387  |
| 10                                   | 0,431                                | 0,475  | 0,519  | 0,563  | 0,607  | 0,651  | 0,695  | 0,739  | 0,783  | 0,827  |
| 20                                   | 0,872                                | 0,917  | 0,962  | 1,007  | 1,052  | 1,097  | 1,142  | 1,187  | 1,232  | 1,277  |
| 30                                   | 1,323                                | 1,369  | 1,415  | 1,461  | 1,507  | 1,553  | 1,599  | 1,645  | 1,691  | 1,737  |
| 40                                   | 1,783                                | 1,830  | 1,877  | 1,924  | 1,971  | 2,018  | 2,065  | 2,112  | 2,159  | 2,206  |

| Температура<br>рабочего<br>конца, °C | Т. э. д. с., мВ, для температуры, °C |       |       |       |       |       |       |       |       |       |
|--------------------------------------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                      | 0                                    | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     |
| 50                                   | 2,253                                | 2,300 | 2,347 | 2,395 | 2,443 | 2,491 | 2,539 | 2,587 | 2,635 | 2,683 |
| 60                                   | 2,731                                | 2,779 | 2,827 | 2,875 | 2,923 | 2,971 | 3,019 | 3,068 | 3,117 | 3,166 |
| 70                                   | 3,215                                | 3,264 | 3,313 | 3,362 | 3,411 | 3,460 | 3,509 | 3,559 | 3,609 | 3,659 |
| 80                                   | 3,709                                | 3,759 | 3,809 | 3,859 | 3,909 | 3,959 | 4,009 | 4,059 | 4,109 | 4,160 |
| 90                                   | 4,211                                | 4,262 | 4,313 | 4,364 | 4,415 | 4,466 | 4,517 | 4,568 | 4,619 | 4,670 |
| 100                                  | 4,721                                |       |       |       |       |       |       |       |       |       |

## Тип ТПП

## Номинальная статическая характеристика преобразования ПП (R)

| Температура<br>рабочего<br>конца, °С | Т. э. д. с., мВ, для температуры, °С |        |        |        |        |        |        |        |        |        |
|--------------------------------------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                      | 0                                    | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
| -50                                  | -0,226                               |        |        |        |        |        |        |        |        |        |
| -40                                  | -0,188                               | -0,192 | -0,196 | -0,200 | -0,204 | -0,207 | -0,211 | -0,215 | -0,219 | -0,223 |
| -30                                  | -0,145                               | -0,150 | -0,154 | -0,158 | -0,163 | -0,167 | -0,171 | -0,175 | -0,180 | -0,184 |
| -20                                  | -0,100                               | -0,105 | -0,109 | -0,114 | -0,119 | -0,123 | -0,128 | -0,132 | -0,137 | -0,141 |
| -10                                  | -0,051                               | -0,056 | -0,061 | -0,066 | -0,071 | -0,076 | -0,081 | -0,086 | -0,091 | -0,095 |
| 0                                    | 0,000                                | -0,005 | -0,011 | -0,016 | -0,021 | -0,026 | -0,031 | -0,036 | -0,041 | -0,046 |
| 0                                    | 0,000                                | 0,005  | 0,011  | 0,016  | 0,021  | 0,027  | 0,032  | 0,038  | 0,043  | 0,049  |
| 10                                   | 0,054                                | 0,060  | 0,065  | 0,071  | 0,077  | 0,082  | 0,088  | 0,094  | 0,100  | 0,105  |
| 20                                   | 0,111                                | 0,117  | 0,123  | 0,129  | 0,135  | 0,141  | 0,147  | 0,152  | 0,158  | 0,165  |
| 30                                   | 0,171                                | 0,177  | 0,183  | 0,189  | 0,195  | 0,201  | 0,207  | 0,214  | 0,220  | 0,226  |
| 40                                   | 0,232                                | 0,239  | 0,245  | 0,251  | 0,258  | 0,264  | 0,271  | 0,277  | 0,283  | 0,290  |
| 50                                   | 0,296                                | 0,303  | 0,310  | 0,316  | 0,323  | 0,329  | 0,336  | 0,343  | 0,349  | 0,356  |
| 60                                   | 0,363                                | 0,369  | 0,376  | 0,383  | 0,390  | 0,397  | 0,403  | 0,410  | 0,417  | 0,424  |
| 70                                   | 0,431                                | 0,438  | 0,445  | 0,452  | 0,459  | 0,466  | 0,473  | 0,480  | 0,487  | 0,494  |
| 80                                   | 0,501                                | 0,508  | 0,515  | 0,523  | 0,530  | 0,537  | 0,544  | 0,552  | 0,559  | 0,566  |
| 90                                   | 0,573                                | 0,581  | 0,588  | 0,595  | 0,603  | 0,610  | 0,617  | 0,625  | 0,632  | 0,640  |
| 100                                  | 0,647                                | 0,655  | 0,662  | 0,670  | 0,677  | 0,685  | 0,692  | 0,700  | 0,708  | 0,715  |
| 110                                  | 0,723                                | 0,730  | 0,738  | 0,746  | 0,754  | 0,761  | 0,769  | 0,777  | 0,784  | 0,792  |
| 120                                  | 0,800                                | 0,808  | 0,816  | 0,824  | 0,831  | 0,839  | 0,847  | 0,855  | 0,863  | 0,871  |
| 130                                  | 0,879                                | 0,887  | 0,895  | 0,903  | 0,911  | 0,919  | 0,927  | 0,935  | 0,943  | 0,951  |
| 140                                  | 0,959                                | 0,967  | 0,975  | 0,983  | 0,992  | 1,000  | 1,008  | 1,016  | 1,024  | 1,032  |
| 150                                  | 1,041                                | 1,049  | 1,057  | 1,065  | 1,074  | 1,082  | 1,090  | 1,099  | 1,107  | 1,115  |
| 160                                  | 1,124                                | 1,132  | 1,140  | 1,149  | 1,157  | 1,166  | 1,174  | 1,183  | 1,191  | 1,200  |
| 170                                  | 1,208                                | 1,217  | 1,225  | 1,234  | 1,242  | 1,251  | 1,259  | 1,269  | 1,276  | 1,285  |
| 180                                  | 1,294                                | 1,302  | 1,311  | 1,319  | 1,328  | 1,337  | 1,345  | 1,354  | 1,363  | 1,373  |
| 190                                  | 1,380                                | 1,389  | 1,398  | 1,407  | 1,415  | 1,424  | 1,433  | 1,442  | 1,450  | 1,459  |
| 200                                  | 1,468                                | 1,477  | 1,486  | 1,495  | 1,504  | 1,512  | 1,521  | 1,530  | 1,539  | 1,548  |

| Температура<br>рабочего<br>конца, °С | Т. э. д. с., мВ, для температуры, °С |       |       |       |       |       |       |       |       |       |
|--------------------------------------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                      | 0                                    | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     |
| 210                                  | 1,557                                | 1,566 | 1,575 | 1,584 | 1,593 | 1,602 | 1,611 | 1,620 | 1,629 | 1,638 |
| 220                                  | 1,647                                | 1,656 | 1,665 | 1,674 | 1,683 | 1,692 | 1,702 | 1,711 | 1,720 | 1,729 |
| 230                                  | 1,738                                | 1,747 | 1,756 | 1,766 | 1,775 | 1,784 | 1,793 | 1,802 | 1,812 | 1,821 |
| 240                                  | 1,830                                | 1,839 | 1,849 | 1,858 | 1,867 | 1,876 | 1,886 | 1,895 | 1,904 | 1,914 |
| 250                                  | 1,923                                | 1,932 | 1,942 | 1,951 | 1,960 | 1,970 | 1,979 | 1,988 | 1,998 | 2,007 |
| 260                                  | 2,017                                | 2,026 | 2,036 | 2,045 | 2,054 | 2,064 | 2,073 | 2,083 | 2,092 | 2,102 |
| 270                                  | 2,111                                | 2,121 | 2,130 | 2,140 | 2,149 | 2,159 | 2,169 | 2,178 | 2,188 | 2,197 |
| 280                                  | 2,207                                | 2,216 | 2,226 | 2,236 | 2,245 | 2,255 | 2,264 | 2,274 | 2,284 | 2,293 |
| 290                                  | 2,303                                | 2,313 | 2,322 | 2,332 | 2,342 | 2,351 | 2,361 | 2,371 | 2,381 | 2,390 |
| 300                                  | 2,400                                | 2,410 | 2,420 | 2,429 | 2,439 | 2,449 | 2,459 | 2,468 | 2,478 | 2,488 |
| 310                                  | 2,498                                | 2,508 | 2,517 | 2,527 | 2,537 | 2,547 | 2,557 | 2,567 | 2,577 | 2,586 |
| 320                                  | 2,596                                | 2,606 | 2,616 | 2,626 | 2,636 | 2,646 | 2,656 | 2,666 | 2,676 | 2,685 |
| 330                                  | 2,695                                | 2,705 | 2,715 | 2,725 | 2,735 | 2,745 | 2,755 | 2,765 | 2,775 | 2,785 |
| 340                                  | 2,795                                | 2,805 | 2,815 | 2,825 | 2,835 | 2,845 | 2,855 | 2,866 | 2,876 | 2,886 |
| 350                                  | 2,896                                | 2,906 | 2,916 | 2,926 | 2,936 | 2,946 | 2,956 | 2,966 | 2,977 | 2,987 |
| 360                                  | 2,997                                | 3,007 | 3,017 | 3,027 | 3,037 | 3,048 | 3,058 | 3,068 | 3,078 | 3,088 |
| 370                                  | 3,099                                | 3,109 | 3,119 | 3,129 | 3,139 | 3,150 | 3,160 | 3,170 | 3,180 | 3,191 |
| 380                                  | 3,201                                | 3,211 | 3,221 | 3,232 | 3,242 | 3,252 | 3,263 | 3,273 | 3,283 | 3,293 |
| 390                                  | 3,304                                | 3,314 | 3,324 | 3,335 | 3,345 | 3,355 | 3,366 | 3,376 | 3,386 | 3,397 |
| 400                                  | 3,407                                | 3,418 | 3,428 | 3,438 | 3,449 | 3,459 | 3,470 | 3,480 | 3,490 | 3,501 |
| 410                                  | 3,511                                | 3,522 | 3,532 | 3,543 | 3,553 | 3,563 | 3,574 | 3,584 | 3,595 | 3,605 |
| 420                                  | 3,616                                | 3,625 | 3,637 | 3,647 | 3,658 | 3,668 | 3,679 | 3,689 | 3,700 | 3,710 |
| 430                                  | 3,721                                | 3,731 | 3,742 | 3,752 | 3,763 | 3,774 | 3,784 | 3,795 | 3,805 | 3,816 |
| 440                                  | 3,826                                | 3,837 | 3,848 | 3,858 | 3,869 | 3,879 | 3,890 | 3,901 | 3,911 | 3,922 |
| 450                                  | 3,933                                | 3,943 | 3,954 | 3,964 | 3,975 | 3,986 | 3,996 | 4,007 | 4,018 | 4,028 |
| 460                                  | 4,039                                | 4,050 | 4,061 | 4,071 | 4,082 | 4,093 | 4,103 | 4,114 | 4,125 | 4,136 |
| 470                                  | 4,146                                | 4,157 | 4,168 | 4,178 | 4,189 | 4,200 | 4,211 | 4,222 | 4,232 | 4,243 |
| 480                                  | 4,254                                | 4,265 | 4,275 | 4,286 | 4,297 | 4,308 | 4,319 | 4,329 | 4,340 | 4,351 |
| 490                                  | 4,362                                | 4,373 | 4,384 | 4,394 | 4,405 | 4,416 | 4,427 | 4,438 | 4,449 | 4,460 |
| 500                                  | 4,471                                | 4,481 | 4,492 | 4,503 | 4,514 | 4,525 | 4,536 | 4,547 | 4,558 | 4,569 |
| 510                                  | 4,580                                | 4,591 | 4,601 | 4,612 | 4,623 | 4,634 | 4,645 | 4,656 | 4,667 | 4,678 |

| Температура<br>рабочего<br>конца, °С | Т. э. д. с., мВ, для температуры, °С |       |       |       |       |       |       |       |       |       |
|--------------------------------------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                      | 0                                    | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     |
| 520                                  | 4,689                                | 4,700 | 4,711 | 4,722 | 4,733 | 4,744 | 4,755 | 4,766 | 4,777 | 4,788 |
| 530                                  | 4,799                                | 4,810 | 4,821 | 4,832 | 4,843 | 4,854 | 4,865 | 4,876 | 4,888 | 4,899 |
| 540                                  | 4,910                                | 4,921 | 4,932 | 4,943 | 4,954 | 4,965 | 4,976 | 4,987 | 4,998 | 5,009 |
| 550                                  | 5,021                                | 5,032 | 5,043 | 5,054 | 5,065 | 5,076 | 5,087 | 5,099 | 5,110 | 5,121 |
| 560                                  | 5,132                                | 5,143 | 5,154 | 5,166 | 5,177 | 5,188 | 5,199 | 5,210 | 5,221 | 5,233 |
| 570                                  | 5,244                                | 5,255 | 5,266 | 5,278 | 5,289 | 5,300 | 5,311 | 5,322 | 5,334 | 5,345 |
| 580                                  | 5,365                                | 5,368 | 5,379 | 5,390 | 5,401 | 5,413 | 5,424 | 5,435 | 5,446 | 5,458 |
| 590                                  | 5,469                                | 5,480 | 5,492 | 5,503 | 5,514 | 5,526 | 5,537 | 5,548 | 5,560 | 5,571 |
| 600                                  | 5,582                                | 5,594 | 5,605 | 5,616 | 5,628 | 5,639 | 5,650 | 5,662 | 5,673 | 5,685 |
| 610                                  | 5,696                                | 5,707 | 5,719 | 5,730 | 5,742 | 5,753 | 5,764 | 5,776 | 5,787 | 5,799 |
| 620                                  | 5,810                                | 5,821 | 5,833 | 5,844 | 5,856 | 5,867 | 5,879 | 5,890 | 5,902 | 5,913 |
| 630                                  | 5,925                                | 5,936 | 5,948 | 5,959 | 5,971 | 5,982 | 5,994 | 6,005 | 6,017 | 6,028 |
| 640                                  | 6,040                                | 6,051 | 6,063 | 6,074 | 6,086 | 6,098 | 6,109 | 6,121 | 6,132 | 6,144 |
| 650                                  | 6,155                                | 6,167 | 6,179 | 6,190 | 6,202 | 6,213 | 6,225 | 6,237 | 6,248 | 6,260 |
| 660                                  | 6,272                                | 6,283 | 6,295 | 6,307 | 6,318 | 6,330 | 6,342 | 6,353 | 6,365 | 6,377 |
| 670                                  | 6,388                                | 6,400 | 6,412 | 6,423 | 6,435 | 6,447 | 6,458 | 6,470 | 6,482 | 6,494 |
| 680                                  | 6,505                                | 6,517 | 6,529 | 6,541 | 6,552 | 6,564 | 6,576 | 6,588 | 6,599 | 6,611 |
| 690                                  | 6,623                                | 6,635 | 6,647 | 6,658 | 6,670 | 6,682 | 6,694 | 6,706 | 6,718 | 6,729 |
| 700                                  | 6,741                                | 6,753 | 6,765 | 6,777 | 6,789 | 6,800 | 6,812 | 6,824 | 6,836 | 6,848 |
| 710                                  | 6,860                                | 6,872 | 6,884 | 6,895 | 6,907 | 6,919 | 6,931 | 6,943 | 6,955 | 6,967 |
| 720                                  | 6,979                                | 6,991 | 7,003 | 7,015 | 7,027 | 7,039 | 7,051 | 7,063 | 7,074 | 7,086 |
| 730                                  | 7,098                                | 7,110 | 7,122 | 7,134 | 7,146 | 7,158 | 7,170 | 7,182 | 7,194 | 7,206 |
| 740                                  | 7,218                                | 7,231 | 7,243 | 7,255 | 7,267 | 7,279 | 7,291 | 7,303 | 7,315 | 7,327 |
| 750                                  | 7,339                                | 7,351 | 7,363 | 7,375 | 7,387 | 7,399 | 7,412 | 7,424 | 7,436 | 7,448 |
| 760                                  | 7,460                                | 7,472 | 7,484 | 7,496 | 7,509 | 7,521 | 7,533 | 7,545 | 7,557 | 7,569 |
| 770                                  | 7,582                                | 7,594 | 7,606 | 7,618 | 7,630 | 7,642 | 7,655 | 7,667 | 7,679 | 7,691 |
| 780                                  | 7,703                                | 7,716 | 7,728 | 7,740 | 7,752 | 7,765 | 7,777 | 7,789 | 7,801 | 7,814 |
| 790                                  | 7,826                                | 7,838 | 7,850 | 7,863 | 7,875 | 7,887 | 7,900 | 7,912 | 7,924 | 7,937 |
| 800                                  | 7,949                                | 7,961 | 7,973 | 7,986 | 7,998 | 8,010 | 8,023 | 8,035 | 8,047 | 8,060 |
| 810                                  | 8,072                                | 8,085 | 8,097 | 8,109 | 8,122 | 8,134 | 8,146 | 8,159 | 8,171 | 8,184 |
| 820                                  | 8,196                                | 8,208 | 8,221 | 8,233 | 8,246 | 8,258 | 8,271 | 8,283 | 8,295 | 8,308 |

| Температура<br>рабочего<br>конца, °С | Т. э. д. с., мВ, для температуры, °С |        |        |        |        |        |        |        |        |        |
|--------------------------------------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                      | 0                                    | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
| 830                                  | 8,320                                | 8,333  | 8,345  | 8,358  | 8,370  | 8,383  | 8,395  | 8,408  | 8,420  | 8,433  |
| 840                                  | 8,445                                | 8,458  | 8,470  | 8,483  | 8,495  | 8,508  | 8,520  | 8,533  | 8,545  | 8,558  |
| 850                                  | 8,570                                | 8,583  | 8,595  | 8,608  | 8,621  | 8,633  | 8,646  | 8,658  | 8,671  | 8,683  |
| 860                                  | 8,696                                | 8,709  | 8,721  | 8,734  | 8,746  | 8,759  | 8,772  | 8,784  | 8,797  | 8,810  |
| 870                                  | 8,822                                | 8,835  | 8,847  | 8,860  | 8,873  | 8,885  | 8,898  | 8,911  | 8,923  | 8,936  |
| 880                                  | 8,949                                | 8,961  | 8,974  | 8,987  | 9,000  | 9,012  | 9,025  | 9,038  | 9,050  | 9,063  |
| 890                                  | 9,076                                | 9,089  | 9,101  | 9,114  | 9,127  | 9,140  | 9,152  | 9,165  | 9,178  | 9,191  |
| 900                                  | 9,203                                | 9,216  | 9,229  | 9,242  | 9,254  | 9,267  | 9,280  | 9,293  | 9,306  | 9,319  |
| 910                                  | 9,331                                | 9,334  | 9,357  | 9,370  | 9,383  | 9,395  | 9,408  | 9,421  | 9,434  | 9,447  |
| 920                                  | 9,460                                | 9,473  | 9,485  | 9,498  | 9,511  | 9,524  | 9,537  | 9,550  | 9,563  | 9,576  |
| 930                                  | 9,589                                | 9,602  | 9,614  | 9,627  | 9,640  | 9,653  | 9,666  | 9,679  | 9,692  | 9,705  |
| 940                                  | 9,718                                | 9,731  | 9,744  | 9,757  | 9,770  | 9,783  | 9,796  | 9,809  | 9,822  | 9,835  |
| 950                                  | 9,848                                | 9,861  | 9,874  | 9,887  | 9,900  | 9,913  | 9,926  | 9,939  | 9,952  | 9,965  |
| 960                                  | 9,978                                | 9,991  | 10,004 | 10,017 | 10,030 | 10,043 | 10,056 | 10,069 | 10,082 | 10,095 |
| 970                                  | 10,109                               | 10,122 | 10,135 | 10,148 | 10,161 | 10,174 | 10,187 | 10,200 | 10,213 | 10,227 |
| 980                                  | 10,240                               | 10,253 | 10,266 | 10,279 | 10,292 | 10,305 | 10,319 | 10,332 | 10,345 | 10,358 |
| 990                                  | 10,371                               | 10,384 | 10,398 | 10,411 | 10,424 | 10,437 | 10,450 | 10,464 | 10,477 | 10,490 |
| 1000                                 | 10,503                               | 10,516 | 10,530 | 10,543 | 10,556 | 10,569 | 10,583 | 10,596 | 10,609 | 10,622 |
| 1010                                 | 10,636                               | 10,649 | 10,662 | 10,675 | 10,689 | 10,702 | 10,715 | 10,729 | 10,742 | 10,755 |
| 1020                                 | 10,768                               | 10,782 | 10,795 | 10,808 | 10,822 | 10,835 | 10,848 | 10,862 | 10,875 | 10,888 |
| 1030                                 | 10,902                               | 10,915 | 10,928 | 10,942 | 10,955 | 10,968 | 10,982 | 10,995 | 11,009 | 11,022 |
| 1040                                 | 11,035                               | 11,049 | 11,062 | 11,076 | 11,089 | 11,102 | 11,116 | 11,129 | 11,143 | 11,156 |
| 1050                                 | 11,170                               | 11,183 | 11,196 | 11,210 | 11,223 | 11,237 | 11,250 | 11,264 | 11,277 | 11,291 |
| 1060                                 | 11,304                               | 11,318 | 11,331 | 11,345 | 11,358 | 11,372 | 11,385 | 11,399 | 11,412 | 11,426 |
| 1070                                 | 11,439                               | 11,453 | 11,466 | 11,480 | 11,493 | 11,507 | 11,520 | 11,534 | 11,547 | 11,561 |
| 1080                                 | 11,574                               | 11,588 | 11,602 | 11,615 | 11,629 | 11,642 | 11,656 | 11,669 | 11,683 | 11,697 |
| 1090                                 | 11,710                               | 11,724 | 11,737 | 11,751 | 11,765 | 11,778 | 11,792 | 11,806 | 11,819 | 11,833 |
| 1100                                 | 11,846                               | 11,860 | 11,874 | 11,887 | 11,901 | 11,914 | 11,928 | 11,942 | 11,955 | 11,969 |
| 1110                                 | 11,983                               | 11,996 | 12,010 | 12,024 | 12,037 | 12,051 | 12,065 | 12,078 | 12,092 | 12,106 |
| 1120                                 | 12,119                               | 12,133 | 12,147 | 12,161 | 12,174 | 12,188 | 12,202 | 12,215 | 12,229 | 12,243 |
| 1130                                 | 12,257                               | 12,270 | 12,284 | 12,298 | 12,311 | 12,325 | 12,339 | 12,353 | 12,366 | 12,380 |

| Температура<br>рабочего<br>конца, °С | Т. э. д. с., мВ, для температуры, °С |        |        |        |        |        |        |        |        |        |
|--------------------------------------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                      | 0                                    | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
| 1140                                 | 12,394                               | 12,408 | 12,421 | 12,435 | 12,449 | 12,463 | 12,476 | 12,490 | 12,504 | 12,518 |
| 1150                                 | 12,532                               | 12,545 | 12,559 | 12,573 | 12,587 | 12,600 | 12,614 | 12,628 | 12,642 | 12,656 |
| 1160                                 | 12,669                               | 12,683 | 12,697 | 12,711 | 12,725 | 12,739 | 12,752 | 12,766 | 12,780 | 12,794 |
| 1170                                 | 12,808                               | 12,822 | 12,835 | 12,849 | 12,863 | 12,877 | 12,891 | 12,905 | 12,918 | 12,932 |
| 1180                                 | 12,946                               | 12,960 | 12,974 | 12,988 | 13,002 | 13,016 | 13,029 | 13,043 | 13,057 | 13,071 |
| 1190                                 | 13,085                               | 13,099 | 13,113 | 13,127 | 13,140 | 13,154 | 13,168 | 13,182 | 13,196 | 13,210 |
| 1200                                 | 13,224                               | 13,238 | 13,252 | 13,266 | 13,280 | 13,293 | 13,307 | 13,321 | 13,335 | 13,349 |
| 1210                                 | 13,363                               | 13,377 | 13,391 | 13,405 | 13,419 | 13,433 | 13,447 | 13,461 | 13,475 | 13,489 |
| 1220                                 | 13,502                               | 13,516 | 13,530 | 13,544 | 13,558 | 13,572 | 13,586 | 13,600 | 13,614 | 13,628 |
| 1230                                 | 13,642                               | 13,656 | 13,670 | 13,684 | 13,698 | 13,712 | 13,726 | 13,740 | 13,754 | 13,768 |
| 1240                                 | 13,782                               | 13,796 | 13,810 | 13,824 | 13,838 | 13,852 | 13,866 | 13,880 | 13,894 | 13,908 |
| 1250                                 | 13,922                               | 13,936 | 13,950 | 13,964 | 13,978 | 13,992 | 14,006 | 14,020 | 14,034 | 14,048 |
| 1260                                 | 14,062                               | 14,076 | 14,090 | 14,104 | 14,118 | 14,132 | 14,146 | 14,160 | 14,174 | 14,188 |
| 1270                                 | 14,202                               | 14,216 | 14,230 | 14,244 | 14,258 | 14,272 | 14,286 | 14,301 | 14,315 | 14,329 |
| 1280                                 | 14,343                               | 14,357 | 14,371 | 14,385 | 14,399 | 14,413 | 14,427 | 14,441 | 14,455 | 14,469 |
| 1290                                 | 14,483                               | 14,497 | 14,511 | 14,525 | 14,539 | 14,554 | 14,568 | 14,582 | 14,596 | 14,610 |
| 1300                                 | 14,624                               | 14,638 | 14,652 | 14,666 | 14,680 | 14,694 | 14,708 | 14,722 | 14,737 | 14,751 |
| 1310                                 | 14,765                               | 14,779 | 14,793 | 14,807 | 14,821 | 14,835 | 14,849 | 14,863 | 14,877 | 14,891 |
| 1320                                 | 14,906                               | 14,920 | 14,934 | 14,948 | 14,962 | 14,976 | 14,990 | 15,004 | 15,018 | 15,032 |
| 1330                                 | 15,047                               | 15,061 | 15,075 | 15,089 | 15,103 | 15,117 | 15,131 | 15,145 | 15,159 | 15,173 |
| 1340                                 | 15,188                               | 15,202 | 15,216 | 15,230 | 15,244 | 15,258 | 15,272 | 15,286 | 15,300 | 15,315 |
| 1350                                 | 15,329                               | 15,343 | 15,357 | 15,371 | 15,385 | 15,399 | 15,413 | 15,427 | 15,442 | 15,456 |
| 1360                                 | 15,470                               | 15,484 | 15,498 | 15,512 | 15,526 | 15,540 | 15,555 | 15,569 | 15,583 | 15,597 |
| 1370                                 | 15,611                               | 15,625 | 15,639 | 15,653 | 15,667 | 15,682 | 15,696 | 15,710 | 15,724 | 15,738 |
| 1380                                 | 15,762                               | 15,766 | 15,780 | 15,795 | 15,809 | 15,823 | 15,837 | 15,851 | 15,865 | 15,879 |
| 1390                                 | 15,893                               | 15,908 | 15,922 | 15,936 | 15,950 | 15,964 | 15,978 | 15,992 | 16,006 | 16,021 |
| 1400                                 | 16,035                               | 16,049 | 16,063 | 16,077 | 16,091 | 16,105 | 16,119 | 16,134 | 16,148 | 16,162 |
| 1410                                 | 16,176                               | 16,190 | 16,204 | 16,218 | 16,232 | 16,247 | 16,261 | 16,275 | 16,289 | 16,303 |
| 1420                                 | 16,317                               | 16,331 | 16,345 | 16,360 | 16,374 | 16,388 | 16,402 | 16,416 | 16,430 | 16,444 |
| 1430                                 | 16,468                               | 16,472 | 16,487 | 16,501 | 16,515 | 16,529 | 16,543 | 16,557 | 16,571 | 16,585 |
| 1440                                 | 16,599                               | 16,614 | 16,628 | 16,642 | 16,656 | 16,670 | 16,684 | 16,698 | 16,712 | 16,726 |

| Температура<br>рабочего<br>конца, °C | Т. э. д. с., мВ, для температуры, °C |        |        |        |        |        |        |        |        |        |
|--------------------------------------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                      | 0                                    | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
| 1450                                 | 16,741                               | 16,755 | 16,769 | 16,783 | 16,797 | 16,811 | 16,825 | 16,839 | 16,853 | 16,867 |
| 1460                                 | 16,882                               | 16,896 | 16,910 | 16,924 | 16,938 | 16,952 | 16,966 | 16,980 | 16,994 | 17,008 |
| 1470                                 | 17,022                               | 17,037 | 17,051 | 17,065 | 17,079 | 17,093 | 17,107 | 17,121 | 17,135 | 17,149 |
| 1480                                 | 17,163                               | 17,177 | 17,192 | 17,206 | 17,220 | 17,234 | 17,248 | 17,262 | 17,276 | 17,290 |
| 1490                                 | 17,304                               | 17,318 | 17,332 | 17,346 | 17,360 | 17,374 | 17,388 | 17,403 | 17,417 | 17,431 |
| 1500                                 | 17,445                               | 17,459 | 17,473 | 17,487 | 17,501 | 17,515 | 17,529 | 17,543 | 17,557 | 17,571 |
| 1510                                 | 17,585                               | 17,599 | 17,613 | 17,627 | 17,641 | 17,655 | 17,669 | 17,684 | 17,698 | 17,712 |
| 1520                                 | 17,726                               | 17,740 | 17,754 | 17,768 | 17,782 | 17,796 | 17,810 | 17,824 | 17,838 | 17,852 |
| 1530                                 | 17,866                               | 17,880 | 17,894 | 17,908 | 17,922 | 17,936 | 17,950 | 17,964 | 17,978 | 17,992 |
| 1540                                 | 18,006                               | 18,020 | 18,034 | 18,048 | 18,062 | 18,076 | 18,090 | 18,104 | 18,118 | 17,132 |
| 1550                                 | 18,146                               | 18,160 | 18,174 | 18,188 | 18,202 | 18,216 | 18,230 | 18,244 | 18,258 | 18,272 |
| 1560                                 | 18,286                               | 18,299 | 18,313 | 18,327 | 18,341 | 18,355 | 18,369 | 18,383 | 18,397 | 18,411 |
| 1570                                 | 18,425                               | 18,439 | 18,453 | 18,467 | 18,481 | 18,495 | 18,509 | 18,523 | 18,537 | 18,550 |
| 1580                                 | 18,564                               | 18,578 | 18,592 | 18,606 | 18,620 | 18,634 | 18,648 | 18,662 | 18,676 | 18,690 |
| 1590                                 | 18,703                               | 18,717 | 18,731 | 18,745 | 18,759 | 18,773 | 18,787 | 18,801 | 18,815 | 18,828 |
| 1600                                 | 18,842                               | 18,856 | 18,870 | 18,884 | 18,898 | 18,912 | 18,926 | 18,939 | 18,953 | 18,967 |
| 1610                                 | 18,981                               | 18,995 | 19,009 | 19,023 | 19,036 | 19,050 | 19,064 | 19,078 | 19,092 | 19,106 |
| 1620                                 | 19,119                               | 19,133 | 19,147 | 19,161 | 19,175 | 19,188 | 19,202 | 19,216 | 19,230 | 19,244 |
| 1630                                 | 19,257                               | 19,271 | 19,285 | 19,299 | 19,313 | 19,326 | 19,340 | 19,354 | 19,368 | 19,382 |
| 1640                                 | 19,395                               | 19,409 | 19,423 | 19,437 | 19,450 | 19,464 | 19,478 | 19,492 | 19,505 | 19,519 |
| 1650                                 | 19,533                               | 19,547 | 19,560 | 19,574 | 19,588 | 19,602 | 19,615 | 19,629 | 19,643 | 19,656 |
| 1660                                 | 19,670                               | 19,684 | 19,698 | 19,711 | 19,725 | 19,739 | 19,752 | 19,766 | 19,780 | 19,793 |
| 1670                                 | 19,807                               | 19,821 | 19,834 | 19,848 | 19,862 | 19,875 | 19,889 | 19,903 | 19,916 | 19,930 |
| 1680                                 | 19,944                               | 19,957 | 19,971 | 19,985 | 19,998 | 20,012 | 20,025 | 20,039 | 20,053 | 20,066 |
| 1690                                 | 20,080                               | 20,093 | 20,107 | 20,120 | 20,134 | 20,148 | 20,161 | 20,175 | 20,188 | 20,202 |
| 1700                                 | 20,215                               | 20,229 | 20,242 | 20,256 | 20,269 | 20,283 | 20,296 | 20,309 | 20,323 | 20,336 |
| 1710                                 | 20,350                               | 20,363 | 20,377 | 20,390 | 20,403 | 20,417 | 20,430 | 20,443 | 20,457 | 20,470 |
| 1720                                 | 20,483                               | 20,497 | 20,510 | 20,523 | 20,537 | 20,550 | 20,563 | 20,576 | 20,590 | 20,603 |
| 1730                                 | 20,616                               | 20,629 | 20,642 | 20,656 | 20,669 | 20,682 | 20,695 | 20,708 | 20,721 | 20,734 |
| 1740                                 | 20,748                               | 20,761 | 20,774 | 20,787 | 20,800 | 20,813 | 20,826 | 20,839 | 20,852 | 20,865 |
| 1750                                 | 20,878                               | 20,891 | 20,904 | 20,916 | 20,929 | 20,942 | 20,955 | 20,968 | 20,981 | 20,994 |
| 1760                                 | 21,006                               | 21,019 | 21,032 | 21,045 | 21,057 | 21,070 | 21,083 | 21,096 | 21,108 | 21,121 |

## Тип ТХК

## Номинальная статическая характеристика преобразования ХК (Е)

| Температура<br>рабочего<br>конца, °С | Т. э. д. с., мВ, для температуры, °С |        |        |        |        |        |        |        |        |        |
|--------------------------------------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                      | 0                                    | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
| —270                                 | —9,835                               |        |        |        |        |        |        |        |        |        |
| —260                                 | —9,797                               | —9,802 | —9,808 | —9,813 | —9,817 | —9,821 | —9,825 | —9,828 | —9,831 | —9,833 |
| —250                                 | —9,719                               | —9,728 | —9,737 | —9,746 | —9,754 | —9,762 | —9,770 | —9,777 | —9,784 | —9,791 |
| —240                                 | —9,604                               | —9,617 | —9,630 | —9,642 | —9,654 | —9,666 | —9,677 | —9,688 | —9,699 | —9,709 |
| —230                                 | —9,455                               | —9,472 | —9,488 | —9,503 | —9,519 | —9,534 | —9,549 | —9,563 | —9,577 | —9,591 |
| —220                                 | —9,274                               | —9,293 | —9,313 | —9,332 | —9,350 | —9,368 | —9,386 | —9,404 | —9,421 | —9,438 |
| —210                                 | —9,063                               | —9,087 | —9,107 | —9,129 | —9,151 | —9,172 | —9,193 | —9,214 | —9,234 | —9,254 |
| —200                                 | —8,824                               | —8,850 | —8,874 | —8,899 | —8,923 | —8,947 | —8,971 | —8,994 | —9,017 | —9,040 |
| —190                                 | —8,561                               | —8,588 | —8,615 | —8,642 | —8,669 | —8,696 | —8,722 | —8,748 | —8,774 | —8,799 |
| —180                                 | —8,273                               | —8,303 | —8,333 | —8,362 | —8,391 | —8,420 | —8,449 | —8,477 | —8,505 | —8,533 |
| —170                                 | —7,963                               | —7,995 | —8,027 | —8,058 | —8,090 | —8,121 | —8,152 | —8,183 | —8,213 | —8,243 |
| —160                                 | —7,631                               | —7,665 | —7,699 | —7,733 | —7,767 | —7,800 | —7,833 | —7,866 | —7,898 | —7,931 |
| —150                                 | —7,279                               | —7,315 | —7,351 | —7,387 | —7,422 | —7,458 | —7,493 | —7,528 | —7,562 | —7,597 |
| —140                                 | —6,907                               | —6,945 | —6,983 | —7,020 | —7,058 | —7,095 | —7,132 | —7,169 | —7,206 | —7,243 |
| —130                                 | —6,516                               | —6,556 | —6,596 | —6,635 | —6,675 | —6,714 | —6,753 | —6,792 | —6,830 | —6,869 |
| —120                                 | —6,107                               | —6,149 | —6,190 | —6,231 | —6,273 | —6,314 | —6,354 | —6,395 | —6,436 | —6,476 |
| —110                                 | —5,680                               | —5,724 | —5,767 | —5,810 | —5,853 | —5,896 | —5,938 | —5,981 | —6,023 | —6,065 |
| —100                                 | —5,237                               | —5,282 | —5,327 | —5,371 | —5,416 | —5,460 | —5,505 | —5,549 | —5,593 | —5,637 |
| —90                                  | —4,777                               | —4,824 | —4,870 | —4,916 | —4,963 | —5,009 | —5,055 | —5,100 | —5,146 | —5,191 |
| —80                                  | —4,301                               | —4,350 | —4,398 | —4,446 | —4,493 | —4,541 | —4,588 | —4,636 | —4,683 | —4,730 |
| —70                                  | —3,811                               | —3,860 | —3,910 | —3,959 | —4,009 | —4,058 | —4,107 | —4,156 | —4,204 | —4,253 |
| —60                                  | —3,306                               | —3,357 | —3,408 | —3,459 | —3,509 | —3,560 | —3,610 | —3,661 | —3,711 | —3,761 |
| —50                                  | —2,787                               | —2,839 | —2,892 | —2,944 | —2,996 | —3,048 | —3,100 | —3,152 | —3,203 | —3,254 |
| —40                                  | —2,254                               | —2,308 | —2,362 | —2,416 | —2,469 | —2,522 | —2,575 | —2,628 | —2,681 | —2,734 |
| —30                                  | —1,709                               | —1,764 | —1,819 | —1,874 | —1,929 | —1,983 | —2,038 | —2,092 | —2,146 | —2,200 |
| —20                                  | —1,151                               | —1,208 | —1,264 | —1,320 | —1,376 | —1,432 | —1,487 | —1,543 | —1,599 | —1,654 |
| —10                                  | —0,581                               | —0,639 | —0,696 | —0,754 | —0,811 | —0,868 | —0,925 | —0,982 | —1,038 | —1,095 |

| Температура<br>рабочего<br>конца, °C | Т. э. д. с., |        |        |        |
|--------------------------------------|--------------|--------|--------|--------|
|                                      | 0            | 1      | 2      | 3      |
| 0                                    | 0,000        | —0,059 | —0,117 | —0,176 |
| 0                                    | 0,000        | 0,059  | 0,118  | 0,176  |
| 10                                   | 0,591        | 0,651  | 0,711  | 0,770  |
| 20                                   | 1,192        | 1,252  | 1,313  | 1,373  |
| 30                                   | 1,801        | 1,862  | 1,924  | 1,985  |
| 40                                   | 2,419        | 2,482  | 2,544  | 2,607  |
| 50                                   | 3,047        | 3,110  | 3,173  | 3,237  |
| 60                                   | 3,683        | 3,748  | 3,812  | 3,876  |
| 70                                   | 4,329        | 4,394  | 4,459  | 4,524  |
| 80                                   | 4,983        | 5,049  | 5,115  | 5,181  |
| 90                                   | 5,646        | 5,713  | 5,780  | 5,846  |
| 100                                  | 6,317        | 6,385  | 6,452  | 6,520  |
| 110                                  | 6,996        | 7,064  | 7,133  | 7,201  |
| 120                                  | 7,683        | 7,752  | 7,821  | 7,890  |
| 130                                  | 8,377        | 8,447  | 8,517  | 8,587  |
| 140                                  | 9,078        | 9,149  | 9,220  | 9,290  |
| 150                                  | 9,787        | 9,858  | 9,929  | 10,000 |
| 160                                  | 10,501       | 10,573 | 10,645 | 10,717 |
| 170                                  | 11,222       | 11,294 | 11,367 | 11,439 |
| 180                                  | 11,949       | 12,022 | 12,095 | 12,168 |
| 190                                  | 12,681       | 12,755 | 12,828 | 12,902 |
| 200                                  | 13,419       | 13,493 | 13,567 | 13,641 |
| 210                                  | 14,161       | 14,236 | 14,310 | 14,385 |
| 220                                  | 14,909       | 14,984 | 15,059 | 15,134 |
| 230                                  | 15,661       | 15,736 | 15,812 | 15,887 |
| 240                                  | 16,417       | 16,493 | 16,569 | 16,645 |
| 250                                  | 17,178       | 17,254 | 17,330 | 17,406 |
| 260                                  | 17,942       | 18,018 | 18,095 | 18,172 |
| 270                                  | 18,710       | 18,787 | 18,864 | 18,941 |
| 280                                  | 19,481       | 19,558 | 19,636 | 19,713 |
| 290                                  | 20,256       | 20,333 | 20,411 | 20,488 |

мВ, для температуры, °С

| 4      | 5      | 6      | 7      | 8      | 9      |
|--------|--------|--------|--------|--------|--------|
| —0,234 | —0,292 | —0,350 | —0,408 | —0,466 | —0,524 |
| 0,235  | 0,295  | 0,354  | 0,413  | 0,472  | 0,532  |
| 0,830  | 0,890  | 0,950  | 1,011  | 1,071  | 1,131  |
| 1,434  | 1,495  | 1,556  | 1,617  | 1,678  | 1,739  |
| 2,047  | 2,109  | 2,171  | 2,233  | 2,295  | 2,357  |
| 2,669  | 2,732  | 2,795  | 2,858  | 2,921  | 2,984  |
| 3,300  | 3,364  | 3,428  | 3,491  | 3,555  | 3,619  |
| 3,941  | 4,005  | 4,070  | 4,134  | 4,199  | 4,264  |
| 4,590  | 4,655  | 4,720  | 4,786  | 4,852  | 4,917  |
| 5,247  | 5,314  | 5,380  | 5,446  | 5,513  | 5,579  |
| 5,913  | 5,981  | 6,048  | 6,115  | 6,182  | 6,250  |
| 6,588  | 6,656  | 6,724  | 6,792  | 6,860  | 6,928  |
| 7,270  | 7,339  | 7,407  | 7,476  | 7,545  | 7,614  |
| 7,960  | 8,029  | 8,099  | 8,168  | 8,238  | 8,308  |
| 8,657  | 8,727  | 8,797  | 8,867  | 8,938  | 9,008  |
| 9,361  | 9,432  | 9,503  | 9,573  | 9,644  | 9,715  |
| 10,072 | 10,143 | 10,215 | 10,286 | 10,358 | 10,429 |
| 10,789 | 10,861 | 10,933 | 11,005 | 11,077 | 11,150 |
| 11,512 | 11,585 | 11,657 | 11,730 | 11,803 | 11,876 |
| 12,241 | 12,314 | 12,387 | 12,461 | 12,534 | 12,608 |
| 12,975 | 13,049 | 13,123 | 13,197 | 13,271 | 13,345 |
| 13,715 | 13,789 | 13,864 | 13,938 | 14,012 | 14,087 |
| 14,460 | 14,534 | 14,609 | 14,684 | 14,759 | 14,834 |
| 15,209 | 15,284 | 15,359 | 15,435 | 15,510 | 15,585 |
| 15,963 | 15,038 | 16,114 | 16,190 | 16,266 | 16,341 |
| 16,721 | 16,797 | 16,873 | 16,949 | 17,025 | 17,101 |
| 17,483 | 17,559 | 17,636 | 17,712 | 17,789 | 17,865 |
| 18,248 | 18,325 | 18,402 | 18,479 | 18,556 | 18,633 |
| 19,018 | 19,095 | 19,172 | 19,249 | 19,326 | 19,404 |
| 19,790 | 19,868 | 19,945 | 20,023 | 20,100 | 20,178 |
| 20,566 | 20,644 | 20,722 | 20,800 | 20,877 | 20,955 |

| Температура<br>рабочего<br>конца, °C | Т. э. д. а., |        |        |        |
|--------------------------------------|--------------|--------|--------|--------|
|                                      | 0            | 1      | 2      | 3      |
| 300                                  | 21,033       | 21,111 | 21,189 | 21,267 |
| 310                                  | 21,814       | 21,892 | 21,970 | 22,048 |
| 320                                  | 22,597       | 22,675 | 22,754 | 22,832 |
| 330                                  | 23,383       | 23,461 | 23,540 | 23,619 |
| 340                                  | 24,171       | 24,250 | 24,329 | 24,408 |
| 350                                  | 24,961       | 25,041 | 25,120 | 25,199 |
| 360                                  | 25,754       | 25,833 | 25,913 | 25,992 |
| 370                                  | 26,549       | 26,628 | 26,708 | 26,787 |
| 380                                  | 27,345       | 27,425 | 27,504 | 27,584 |
| 390                                  | 28,143       | 28,223 | 28,303 | 28,383 |
| 400                                  | 28,943       | 29,023 | 29,103 | 29,183 |
| 410                                  | 29,744       | 29,824 | 29,904 | 29,984 |
| 420                                  | 30,546       | 30,627 | 30,707 | 30,787 |
| 430                                  | 31,350       | 31,430 | 31,511 | 31,591 |
| 440                                  | 32,155       | 32,235 | 32,316 | 32,396 |
| 450                                  | 32,960       | 33,041 | 33,122 | 33,202 |
| 460                                  | 33,767       | 33,848 | 33,928 | 34,009 |
| 470                                  | 34,574       | 34,655 | 34,736 | 34,816 |
| 480                                  | 35,382       | 35,463 | 35,544 | 35,624 |
| 490                                  | 36,190       | 36,271 | 36,352 | 36,433 |
| 500                                  | 36,999       | 37,080 | 37,161 | 37,242 |
| 510                                  | 37,808       | 37,889 | 37,970 | 38,051 |
| 520                                  | 38,617       | 38,698 | 38,779 | 38,860 |
| 530                                  | 39,426       | 39,507 | 39,588 | 39,669 |
| 540                                  | 40,236       | 40,316 | 40,397 | 40,478 |
| 550                                  | 41,045       | 41,125 | 41,206 | 41,287 |
| 560                                  | 41,853       | 41,934 | 42,015 | 42,096 |
| 570                                  | 42,662       | 42,743 | 42,824 | 42,904 |
| 580                                  | 43,470       | 43,551 | 43,632 | 43,712 |
| 590                                  | 44,278       | 44,358 | 44,439 | 44,520 |
| 600                                  | 45,085       | 45,165 | 45,246 | 45,327 |

мВ, для температуры, °С

| 4      | 5      | 6      | 7      | 8      | 9      |
|--------|--------|--------|--------|--------|--------|
| 21,345 | 21,423 | 21,501 | 21,579 | 21,657 | 21,735 |
| 22,127 | 22,205 | 22,283 | 22,362 | 22,440 | 22,518 |
| 22,911 | 22,989 | 23,068 | 23,147 | 23,225 | 23,304 |
| 23,698 | 23,777 | 23,855 | 23,934 | 24,013 | 24,092 |
| 24,487 | 24,566 | 24,645 | 24,724 | 24,803 | 24,882 |
| 25,278 | 25,357 | 25,437 | 25,516 | 25,595 | 25,675 |
| 26,072 | 26,151 | 26,230 | 26,310 | 26,389 | 26,469 |
| 26,867 | 26,947 | 27,026 | 27,106 | 27,186 | 27,265 |
| 27,664 | 27,744 | 27,824 | 27,903 | 27,983 | 28,063 |
| 28,463 | 28,543 | 28,623 | 28,703 | 28,783 | 28,863 |
| 29,263 | 29,343 | 29,423 | 29,503 | 29,584 | 29,664 |
| 30,065 | 30,145 | 30,225 | 30,305 | 30,386 | 30,466 |
| 30,868 | 30,948 | 31,028 | 31,109 | 31,189 | 31,270 |
| 31,672 | 31,752 | 31,833 | 31,913 | 31,994 | 32,074 |
| 32,477 | 32,557 | 32,638 | 32,719 | 32,799 | 32,880 |
| 33,283 | 33,364 | 33,444 | 33,525 | 33,605 | 33,686 |
| 34,090 | 34,170 | 34,251 | 34,332 | 34,413 | 34,493 |
| 34,897 | 34,978 | 35,059 | 35,140 | 35,220 | 35,301 |
| 35,705 | 35,786 | 35,867 | 35,948 | 36,029 | 36,109 |
| 36,514 | 36,595 | 36,675 | 36,756 | 36,837 | 36,918 |
| 37,323 | 37,403 | 37,484 | 37,565 | 37,646 | 37,727 |
| 38,132 | 38,213 | 38,293 | 38,374 | 38,455 | 38,536 |
| 38,941 | 39,022 | 39,103 | 39,184 | 39,264 | 39,345 |
| 39,750 | 39,831 | 39,912 | 39,993 | 40,074 | 40,155 |
| 40,559 | 40,640 | 40,721 | 40,802 | 40,883 | 40,964 |
| 41,368 | 41,449 | 41,530 | 41,611 | 41,692 | 41,773 |
| 42,177 | 42,258 | 42,339 | 42,419 | 42,500 | 42,581 |
| 42,985 | 43,066 | 43,147 | 43,228 | 43,308 | 43,389 |
| 43,793 | 43,874 | 43,955 | 44,035 | 44,116 | 44,197 |
| 44,601 | 44,681 | 44,762 | 44,843 | 44,923 | 45,004 |
| 45,407 | 45,488 | 45,569 | 45,649 | 45,730 | 45,811 |

| Температура<br>рабочего<br>конца, °С | Т. э. д. а. мВ, для температуры, °С |        |        |        |        |        |        |        |        |        |
|--------------------------------------|-------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                      | 0                                   | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
| 610                                  | 45,891                              | 45,972 | 46,052 | 46,133 | 46,213 | 46,294 | 46,375 | 46,455 | 46,536 | 46,616 |
| 620                                  | 46,697                              | 46,777 | 46,858 | 46,938 | 47,019 | 47,099 | 47,180 | 47,260 | 47,341 | 47,421 |
| 630                                  | 47,502                              | 47,582 | 47,663 | 47,743 | 47,824 | 47,904 | 47,984 | 48,065 | 48,145 | 48,226 |
| 640                                  | 48,306                              | 48,386 | 48,467 | 48,547 | 48,627 | 48,708 | 48,788 | 48,868 | 48,949 | 49,029 |
| 650                                  | 49,109                              | 49,189 | 49,270 | 49,350 | 49,430 | 49,510 | 49,591 | 49,671 | 49,751 | 49,831 |
| 660                                  | 49,911                              | 49,992 | 50,072 | 50,152 | 50,232 | 50,312 | 50,392 | 50,472 | 50,553 | 50,633 |
| 670                                  | 50,713                              | 50,793 | 50,873 | 50,953 | 51,033 | 51,113 | 51,193 | 51,273 | 51,353 | 51,433 |
| 680                                  | 51,513                              | 51,593 | 51,673 | 51,753 | 51,833 | 51,913 | 51,993 | 52,073 | 52,152 | 52,232 |
| 690                                  | 52,312                              | 52,392 | 52,472 | 52,552 | 52,632 | 52,711 | 52,791 | 52,871 | 52,951 | 53,031 |
| 700                                  | 53,110                              | 53,190 | 53,270 | 53,350 | 53,429 | 53,509 | 53,589 | 53,668 | 53,748 | 53,828 |
| 710                                  | 53,907                              | 53,987 | 54,066 | 54,146 | 54,226 | 54,305 | 54,385 | 54,464 | 54,544 | 54,623 |
| 720                                  | 54,703                              | 54,782 | 54,862 | 54,941 | 55,021 | 55,100 | 55,180 | 55,259 | 55,339 | 55,418 |
| 730                                  | 55,498                              | 55,577 | 55,656 | 55,736 | 55,815 | 55,894 | 55,974 | 56,053 | 56,132 | 56,212 |
| 740                                  | 56,291                              | 56,370 | 56,449 | 56,529 | 56,608 | 56,687 | 56,766 | 56,845 | 56,924 | 57,004 |
| 750                                  | 57,083                              | 57,162 | 57,241 | 57,320 | 57,399 | 57,478 | 57,557 | 57,636 | 57,715 | 57,794 |
| 760                                  | 57,873                              | 57,952 | 58,031 | 58,110 | 58,189 | 58,268 | 58,347 | 58,426 | 58,505 | 58,584 |
| 770                                  | 58,663                              | 58,742 | 58,820 | 58,899 | 58,978 | 59,057 | 59,136 | 59,214 | 59,293 | 59,372 |
| 780                                  | 59,451                              | 59,529 | 59,608 | 59,687 | 59,765 | 59,844 | 59,923 | 60,001 | 60,080 | 60,159 |
| 790                                  | 60,237                              | 60,316 | 60,394 | 60,473 | 60,551 | 60,630 | 60,708 | 60,787 | 60,865 | 60,944 |
| 800                                  | 61,022                              | 61,101 | 61,179 | 61,258 | 61,336 | 61,414 | 61,493 | 61,571 | 61,649 | 61,728 |
| 810                                  | 61,806                              | 61,884 | 61,962 | 62,041 | 62,119 | 62,197 | 62,275 | 62,353 | 62,432 | 62,510 |
| 820                                  | 62,588                              | 62,666 | 62,744 | 62,822 | 62,900 | 62,978 | 63,056 | 63,134 | 63,212 | 63,290 |
| 830                                  | 63,368                              | 63,446 | 63,524 | 63,602 | 63,680 | 63,758 | 63,836 | 63,914 | 63,992 | 64,069 |
| 840                                  | 64,147                              | 64,225 | 64,303 | 64,380 | 64,458 | 64,536 | 64,614 | 64,691 | 64,769 | 64,847 |
| 850                                  | 64,924                              | 65,002 | 65,080 | 65,157 | 65,235 | 65,312 | 65,390 | 65,467 | 65,545 | 65,622 |
| 860                                  | 65,700                              | 65,777 | 65,855 | 65,932 | 66,009 | 66,087 | 66,164 | 66,241 | 66,319 | 66,396 |
| 870                                  | 66,473                              | 66,551 | 66,628 | 66,705 | 66,782 | 66,859 | 66,937 | 67,014 | 67,091 | 67,168 |
| 880                                  | 67,245                              | 67,322 | 67,399 | 67,476 | 67,553 | 67,630 | 67,707 | 67,784 | 67,861 | 67,938 |
| 890                                  | 68,015                              | 68,092 | 68,169 | 68,246 | 68,323 | 68,399 | 68,476 | 68,553 | 68,630 | 68,706 |
| 900                                  | 68,783                              | 68,860 | 68,936 | 69,013 | 69,090 | 69,166 | 69,243 | 69,320 | 69,396 | 69,473 |
| 910                                  | 69,549                              | 69,626 | 69,702 | 69,779 | 69,855 | 69,931 | 70,008 | 70,084 | 70,161 | 70,237 |



## Тип ТМК

## Номинальная статическая характеристика преобразования МК (Т)

| Температура<br>рабочего<br>конца, °С | Т. э. д. с., мВ, для температуры, °С |        |        |        |        |        |        |        |        |        |
|--------------------------------------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                      | 0                                    | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
| -270                                 | -6,258                               |        |        |        |        |        |        |        |        |        |
| -260                                 | -6,232                               | -6,236 | -6,239 | -6,242 | -6,245 | -6,248 | -6,251 | -6,253 | -6,255 | -6,256 |
| -250                                 | -6,181                               | -6,187 | -6,193 | -6,198 | -6,204 | -6,209 | -6,214 | -6,219 | -6,224 | -6,228 |
| -240                                 | -6,105                               | -6,114 | -6,122 | -6,130 | -6,138 | -6,146 | -6,153 | -6,160 | -6,167 | -6,174 |
| -230                                 | -6,007                               | -6,018 | -6,028 | -6,039 | -6,049 | -6,059 | -6,068 | -6,078 | -6,087 | -6,096 |
| -220                                 | -5,889                               | -5,901 | -5,914 | -5,926 | -5,938 | -5,950 | -5,962 | -5,973 | -5,985 | -5,993 |
| -210                                 | -5,753                               | -5,767 | -5,782 | -5,795 | -5,809 | -5,823 | -5,836 | -5,850 | -5,863 | -5,876 |
| -200                                 | -5,603                               | -5,619 | -5,634 | -5,650 | -5,665 | -5,680 | -5,695 | -5,710 | -5,724 | -5,739 |
| -190                                 | -5,439                               | -5,456 | -5,473 | -5,489 | -5,506 | -5,522 | -5,539 | -5,555 | -5,571 | -5,587 |
| -180                                 | -5,261                               | -5,279 | -5,297 | -5,315 | -5,333 | -5,351 | -5,369 | -5,387 | -5,404 | -5,421 |
| -170                                 | -5,069                               | -5,089 | -5,109 | -5,128 | -5,147 | -5,167 | -5,186 | -5,205 | -5,223 | -5,242 |
| -160                                 | -4,865                               | -4,886 | -4,907 | -4,928 | -4,948 | -4,969 | -4,989 | -5,010 | -5,030 | -5,050 |
| -150                                 | -4,648                               | -4,670 | -4,693 | -4,715 | -4,737 | -4,758 | -4,780 | -4,801 | -4,823 | -4,844 |
| -140                                 | -4,419                               | -4,442 | -4,466 | -4,489 | -4,512 | -4,535 | -4,558 | -4,581 | -4,603 | -4,626 |
| -130                                 | -4,177                               | -4,202 | -4,226 | -4,251 | -4,275 | -4,299 | -4,323 | -4,347 | -4,371 | -4,395 |
| -120                                 | -3,923                               | -3,949 | -3,974 | -4,000 | -4,026 | -4,051 | -4,077 | -4,102 | -4,127 | -4,152 |
| -110                                 | -3,656                               | -3,684 | -3,711 | -3,737 | -3,764 | -3,791 | -3,818 | -3,844 | -3,870 | -3,897 |
| -100                                 | -3,378                               | -3,407 | -3,435 | -3,463 | -3,491 | -3,519 | -3,547 | -3,574 | -3,602 | -3,629 |
| -90                                  | -3,089                               | -3,118 | -3,147 | -3,177 | -3,206 | -3,235 | -3,264 | -3,293 | -3,321 | -3,350 |
| -80                                  | -2,788                               | -2,818 | -2,849 | -2,879 | -2,909 | -2,939 | -2,970 | -2,999 | -3,029 | -3,059 |
| -70                                  | -2,475                               | -2,507 | -2,539 | -2,570 | -2,602 | -2,633 | -2,664 | -2,695 | -2,726 | -2,757 |
| -60                                  | -2,152                               | -2,185 | -2,218 | -2,250 | -2,283 | -2,315 | -2,348 | -2,380 | -2,412 | -2,444 |
| -50                                  | -1,819                               | -1,853 | -1,886 | -1,920 | -1,953 | -1,987 | -2,020 | -2,053 | -2,087 | -2,120 |
| -40                                  | -1,475                               | -1,510 | -1,544 | -1,579 | -1,614 | -1,648 | -1,682 | -1,717 | -1,751 | -1,785 |
| -30                                  | -1,121                               | -1,157 | -1,192 | -1,228 | -1,263 | -1,299 | -1,334 | -1,370 | -1,405 | -1,440 |
| -20                                  | -0,757                               | -0,794 | -0,830 | -0,867 | -0,903 | -0,940 | -0,976 | -0,013 | -0,049 | -0,085 |
| -10                                  | -0,383                               | -0,421 | -0,458 | -0,496 | -0,534 | -0,571 | -0,608 | -0,646 | -0,683 | -0,720 |

| Температура<br>рабочего<br>конца, °С | Т. э. д. т., мВ, для температуры, °С |        |        |        |        |        |        |        |        |        |
|--------------------------------------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                      | 0                                    | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
| 0                                    | 0,000                                | —0,039 | —0,077 | —0,116 | —0,154 | —0,193 | —0,231 | —0,269 | —0,307 | —0,345 |
| 0                                    | 0,000                                | 0,039  | 0,078  | 0,117  | 0,156  | 0,195  | 0,234  | 0,273  | 0,312  | 0,351  |
| 10                                   | 0,391                                | 0,430  | 0,470  | 0,510  | 0,549  | 0,589  | 0,629  | 0,669  | 0,709  | 0,749  |
| 20                                   | 0,789                                | 0,830  | 0,870  | 0,911  | 0,951  | 0,992  | 1,032  | 1,073  | 1,114  | 1,155  |
| 30                                   | 1,196                                | 1,237  | 1,279  | 1,320  | 1,361  | 1,403  | 1,444  | 1,486  | 1,528  | 1,569  |
| 40                                   | 1,611                                | 1,653  | 1,695  | 1,738  | 1,780  | 1,822  | 1,865  | 1,907  | 1,950  | 1,992  |
| 50                                   | 2,035                                | 2,078  | 2,121  | 2,164  | 2,207  | 2,250  | 2,294  | 2,337  | 2,380  | 2,424  |
| 60                                   | 2,467                                | 2,511  | 2,555  | 2,599  | 2,643  | 2,687  | 2,731  | 2,775  | 2,819  | 2,864  |
| 70                                   | 2,908                                | 2,953  | 2,997  | 3,042  | 3,087  | 3,131  | 3,176  | 3,221  | 3,266  | 3,312  |
| 80                                   | 3,357                                | 3,402  | 3,447  | 3,493  | 3,538  | 3,584  | 3,630  | 3,676  | 3,721  | 3,767  |
| 90                                   | 3,813                                | 3,859  | 3,906  | 3,952  | 3,998  | 4,044  | 4,091  | 4,137  | 4,184  | 4,231  |
| 100                                  | 4,277                                | 4,324  | 4,371  | 4,418  | 4,465  | 4,512  | 4,559  | 4,607  | 4,654  | 4,701  |
| 110                                  | 4,749                                | 4,796  | 4,844  | 4,891  | 4,939  | 4,987  | 5,035  | 5,083  | 5,131  | 5,179  |
| 120                                  | 5,227                                | 5,275  | 5,324  | 5,372  | 5,420  | 5,469  | 5,517  | 5,566  | 5,615  | 5,663  |
| 130                                  | 5,712                                | 5,761  | 5,810  | 5,859  | 5,908  | 5,957  | 6,007  | 6,056  | 6,105  | 6,155  |
| 140                                  | 6,204                                | 6,254  | 6,303  | 6,353  | 6,403  | 6,452  | 6,502  | 6,552  | 6,602  | 6,652  |
| 150                                  | 6,702                                | 6,753  | 6,803  | 6,853  | 6,903  | 6,954  | 7,004  | 7,055  | 7,106  | 7,156  |
| 160                                  | 7,207                                | 7,258  | 7,309  | 7,360  | 7,411  | 7,462  | 7,513  | 7,564  | 7,615  | 7,666  |
| 170                                  | 7,718                                | 7,769  | 7,821  | 7,872  | 7,924  | 7,975  | 8,027  | 8,079  | 8,131  | 8,183  |
| 180                                  | 8,235                                | 8,287  | 8,339  | 8,391  | 8,443  | 8,495  | 8,548  | 8,600  | 8,652  | 8,705  |
| 190                                  | 8,759                                | 8,810  | 8,863  | 8,915  | 8,968  | 9,021  | 9,074  | 9,127  | 9,180  | 9,233  |
| 200                                  | 9,286                                | 9,339  | 9,392  | 9,446  | 9,499  | 9,553  | 9,606  | 9,659  | 9,713  | 9,767  |
| 210                                  | 9,820                                | 9,874  | 9,928  | 9,982  | 10,036 | 10,090 | 10,144 | 10,198 | 10,252 | 10,306 |
| 220                                  | 10,360                               | 10,414 | 10,469 | 10,523 | 10,578 | 10,632 | 10,687 | 10,741 | 10,796 | 10,851 |
| 230                                  | 10,905                               | 10,960 | 11,015 | 11,070 | 11,125 | 11,180 | 11,235 | 11,290 | 11,345 | 11,401 |
| 240                                  | 11,456                               | 11,511 | 11,566 | 11,622 | 11,677 | 11,733 | 11,788 | 11,844 | 11,900 | 11,956 |
| 250                                  | 12,011                               | 12,067 | 12,123 | 12,179 | 12,235 | 12,291 | 12,347 | 12,403 | 12,459 | 12,515 |
| 260                                  | 12,572                               | 12,628 | 12,684 | 12,741 | 12,797 | 12,854 | 12,910 | 12,967 | 13,024 | 13,080 |
| 270                                  | 13,137                               | 13,194 | 13,251 | 13,307 | 13,364 | 13,421 | 13,478 | 13,535 | 13,592 | 13,650 |
| 280                                  | 13,707                               | 13,764 | 13,821 | 13,879 | 13,936 | 13,993 | 14,051 | 14,108 | 14,166 | 14,223 |
| 290                                  | 14,281                               | 14,339 | 14,396 | 14,454 | 14,512 | 14,570 | 14,628 | 14,686 | 14,744 | 14,802 |

| Температура<br>рабочего<br>конца, °С | Т. э. д. с., мВ, для температуры, °С |        |        |        |        |        |        |        |        |        |
|--------------------------------------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                      | 0                                    | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
| 300                                  | 14,860                               | 14,918 | 14,976 | 15,034 | 15,092 | 15,151 | 15,209 | 15,267 | 15,326 | 15,384 |
| 310                                  | 15,443                               | 15,501 | 15,560 | 15,619 | 15,677 | 15,736 | 15,795 | 15,853 | 15,912 | 15,971 |
| 320                                  | 16,030                               | 16,089 | 16,148 | 16,207 | 16,266 | 16,325 | 16,384 | 16,444 | 16,503 | 16,562 |
| 330                                  | 16,621                               | 16,681 | 16,740 | 16,800 | 16,859 | 16,919 | 16,978 | 17,038 | 17,097 | 17,157 |
| 340                                  | 17,217                               | 17,277 | 17,336 | 17,396 | 17,456 | 17,516 | 17,576 | 17,636 | 17,696 | 17,756 |
| 350                                  | 17,816                               | 17,877 | 17,937 | 17,997 | 18,057 | 18,118 | 18,178 | 18,238 | 18,299 | 18,359 |
| 360                                  | 18,420                               | 18,480 | 18,541 | 18,602 | 18,662 | 18,723 | 18,784 | 18,845 | 18,905 | 18,966 |
| 370                                  | 19,027                               | 19,088 | 19,149 | 19,210 | 19,271 | 19,332 | 19,393 | 19,455 | 19,516 | 19,577 |
| 380                                  | 19,638                               | 19,599 | 19,761 | 19,822 | 19,883 | 19,945 | 20,006 | 20,068 | 20,129 | 20,191 |
| 390                                  | 20,252                               | 20,314 | 20,376 | 20,437 | 20,499 | 20,560 | 20,622 | 20,684 | 20,746 | 20,807 |
| 400                                  | 20,869                               |        |        |        |        |        |        |        |        |        |

## Тип ТЖК

## Номинальная статическая характеристика преобразования ЖК (J)

| Температура<br>рабочего<br>конца, °С | Т. э. д. с., мВ, для температуры, °С |        |        |        |        |        |        |        |        |        |
|--------------------------------------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                      | 0                                    | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
| —210                                 | —8,096                               |        |        |        |        |        |        |        |        |        |
| —200                                 | —7,890                               | —7,912 | —7,934 | —7,955 | —7,976 | —7,996 | —8,017 | —8,037 | —8,057 | —8,076 |
| —190                                 | —7,659                               | —7,683 | —7,707 | —7,731 | —7,755 | —7,778 | —7,801 | —7,824 | —7,846 | —7,868 |
| —180                                 | —7,402                               | —7,429 | —7,455 | —7,482 | —7,508 | —7,533 | —7,559 | —7,584 | —7,609 | —7,634 |
| —170                                 | —7,122                               | —7,151 | —7,180 | —7,209 | —7,237 | —7,265 | —7,293 | —7,321 | —7,348 | —7,375 |
| —160                                 | —6,821                               | —6,852 | —6,883 | —6,914 | —6,944 | —6,974 | —7,004 | —7,034 | —7,064 | —7,093 |
| —150                                 | —6,499                               | —6,532 | —6,565 | —6,598 | —6,630 | —6,663 | —6,695 | —6,727 | —6,758 | —6,790 |
| —140                                 | —6,159                               | —6,194 | —6,228 | —6,263 | —6,297 | —6,331 | —6,365 | —6,399 | —6,433 | —6,466 |
| —130                                 | —5,801                               | —5,837 | —5,874 | —5,910 | —5,946 | —5,982 | —6,018 | —6,053 | —6,089 | —6,124 |
| —120                                 | —5,426                               | —5,464 | —5,502 | —5,540 | —5,578 | —5,615 | —5,653 | —5,690 | —5,727 | —5,764 |
| —110                                 | —5,036                               | —5,076 | —5,115 | —5,155 | —5,194 | —5,233 | —5,272 | —5,311 | —5,349 | —5,388 |
| —100                                 | —4,632                               | —4,673 | —4,714 | —4,755 | —4,795 | —4,836 | —4,876 | —4,916 | —4,956 | —4,996 |
| —90                                  | —4,215                               | —4,257 | —4,299 | —4,341 | —4,383 | —4,425 | —4,467 | —4,508 | —4,550 | —4,591 |
| —80                                  | —3,785                               | —3,829 | —3,872 | —3,915 | —3,958 | —4,001 | —4,044 | —4,087 | —4,130 | —4,172 |
| —70                                  | —3,344                               | —3,389 | —3,433 | —3,478 | —3,522 | —3,566 | —3,610 | —3,654 | —3,698 | —3,742 |
| —60                                  | —2,892                               | —2,938 | —2,984 | —3,029 | —3,074 | —3,120 | —3,165 | —3,210 | —3,255 | —3,299 |
| —50                                  | —2,431                               | —2,478 | —2,524 | —2,570 | —2,617 | —2,663 | —2,709 | —2,755 | —2,801 | —2,847 |
| —40                                  | —1,960                               | —2,008 | —2,055 | —2,102 | —2,150 | —2,197 | —2,244 | —2,291 | —2,338 | —2,384 |
| —30                                  | —1,481                               | —1,530 | —1,578 | —1,626 | —1,674 | —1,722 | —1,770 | —1,818 | —1,865 | —1,913 |
| —20                                  | —0,995                               | —1,044 | —1,093 | —1,141 | —1,190 | —1,239 | —1,288 | —1,336 | —1,385 | —1,433 |
| —10                                  | —0,501                               | —0,550 | —0,600 | —0,650 | —0,699 | —0,748 | —0,798 | —0,847 | —0,895 | —0,945 |
| 0                                    | 0,000                                | —0,050 | —0,101 | —0,151 | —0,201 | —2,251 | —0,301 | —0,351 | —0,401 | —0,451 |
| 0                                    | 0,000                                | 0,050  | 0,101  | 0,151  | 0,202  | 0,253  | 0,303  | 0,354  | 0,405  | 0,456  |
| 10                                   | 0,507                                | 0,558  | 0,609  | 0,660  | 0,711  | 0,762  | 0,813  | 0,865  | 0,916  | 0,967  |
| 20                                   | 1,019                                | 1,070  | 1,122  | 1,174  | 1,225  | 1,277  | 1,329  | 1,381  | 1,432  | 1,484  |
| 30                                   | 1,536                                | 1,588  | 1,640  | 1,693  | 1,745  | 1,797  | 1,849  | 1,901  | 1,954  | 2,006  |
| 40                                   | 2,058                                | 2,111  | 2,163  | 2,216  | 2,268  | 2,321  | 2,374  | 2,426  | 2,479  | 2,532  |
| 50                                   | 2,585                                | 2,638  | 2,691  | 2,743  | 2,796  | 2,849  | 2,902  | 2,956  | 3,009  | 3,062  |
| 60                                   | 3,115                                | 3,168  | 3,221  | 3,275  | 3,328  | 3,381  | 3,435  | 3,488  | 3,542  | 3,595  |

| Температура<br>рабочего<br>конца, °C | Т. э. д. с., мВ, для температуры, °C |        |        |        |        |        |        |        |        |        |
|--------------------------------------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                      | 0                                    | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
| 70                                   | 3,649                                | 3,702  | 3,756  | 3,809  | 3,863  | 3,917  | 3,971  | 4,024  | 4,078  | 4,132  |
| 80                                   | 4,186                                | 4,239  | 4,293  | 4,347  | 4,401  | 4,455  | 4,509  | 4,563  | 4,617  | 4,671  |
| 90                                   | 4,725                                | 4,780  | 4,834  | 4,888  | 4,942  | 4,996  | 5,050  | 5,105  | 5,159  | 5,213  |
| 100                                  | 5,268                                | 5,322  | 5,376  | 5,431  | 5,485  | 5,540  | 5,594  | 5,649  | 5,703  | 5,758  |
| 110                                  | 5,812                                | 5,867  | 5,921  | 5,976  | 6,031  | 6,085  | 6,140  | 6,195  | 6,249  | 6,304  |
| 120                                  | 6,359                                | 6,414  | 6,468  | 6,523  | 6,578  | 6,633  | 6,688  | 6,742  | 6,797  | 6,852  |
| 130                                  | 6,907                                | 6,962  | 7,017  | 7,072  | 7,127  | 7,182  | 7,237  | 7,292  | 7,347  | 7,402  |
| 140                                  | 7,457                                | 7,512  | 7,567  | 7,622  | 7,677  | 7,732  | 7,787  | 7,843  | 7,898  | 7,953  |
| 150                                  | 8,008                                | 8,063  | 8,118  | 8,174  | 8,229  | 8,284  | 8,339  | 8,394  | 8,450  | 8,505  |
| 160                                  | 8,560                                | 8,616  | 8,671  | 8,726  | 8,781  | 8,837  | 8,892  | 8,947  | 9,003  | 9,058  |
| 170                                  | 9,113                                | 9,169  | 9,224  | 9,279  | 9,335  | 9,390  | 9,446  | 9,501  | 9,556  | 9,612  |
| 180                                  | 9,667                                | 9,723  | 9,778  | 9,834  | 9,889  | 10,944 | 10,000 | 10,055 | 10,111 | 10,166 |
| 190                                  | 10,222                               | 10,277 | 10,333 | 10,388 | 10,444 | 10,499 | 10,555 | 10,610 | 10,666 | 10,721 |
| 200                                  | 10,777                               | 10,832 | 10,888 | 10,943 | 10,999 | 11,054 | 11,110 | 11,165 | 11,221 | 11,276 |
| 210                                  | 11,332                               | 11,387 | 11,443 | 11,498 | 11,554 | 11,609 | 11,665 | 11,720 | 11,776 | 11,831 |
| 220                                  | 11,887                               | 11,943 | 11,998 | 12,054 | 12,109 | 12,165 | 12,220 | 12,276 | 12,331 | 12,387 |
| 230                                  | 12,442                               | 12,498 | 12,553 | 12,609 | 12,664 | 12,720 | 12,776 | 12,831 | 12,887 | 12,942 |
| 240                                  | 12,998                               | 13,053 | 13,109 | 13,164 | 13,220 | 13,275 | 13,331 | 13,386 | 13,442 | 13,497 |
| 250                                  | 13,553                               | 13,608 | 13,664 | 13,719 | 13,775 | 13,830 | 13,886 | 13,941 | 13,997 | 14,052 |
| 260                                  | 14,108                               | 14,163 | 14,219 | 14,274 | 14,330 | 14,385 | 14,441 | 14,496 | 14,552 | 14,607 |
| 270                                  | 14,663                               | 14,718 | 14,774 | 14,829 | 14,885 | 14,940 | 14,995 | 15,051 | 15,106 | 15,162 |
| 280                                  | 15,217                               | 15,273 | 15,328 | 15,383 | 15,439 | 15,494 | 15,550 | 15,605 | 15,661 | 15,716 |
| 290                                  | 15,771                               | 15,827 | 15,882 | 15,938 | 15,993 | 16,048 | 16,104 | 16,159 | 16,214 | 16,270 |
| 300                                  | 16,325                               | 16,380 | 16,436 | 16,491 | 16,547 | 16,602 | 16,657 | 16,713 | 16,768 | 16,823 |
| 310                                  | 16,879                               | 16,934 | 16,989 | 17,044 | 17,100 | 17,155 | 17,210 | 17,266 | 17,321 | 17,376 |
| 320                                  | 17,432                               | 17,487 | 17,542 | 17,597 | 17,653 | 17,708 | 17,763 | 17,818 | 17,874 | 17,929 |
| 330                                  | 17,984                               | 18,039 | 18,095 | 18,150 | 18,205 | 18,260 | 18,316 | 18,371 | 18,426 | 18,481 |
| 340                                  | 18,537                               | 18,592 | 18,647 | 18,702 | 18,757 | 18,813 | 18,868 | 18,923 | 18,978 | 19,033 |
| 350                                  | 19,089                               | 19,144 | 19,199 | 19,254 | 19,309 | 19,364 | 19,420 | 19,475 | 19,530 | 19,585 |
| 360                                  | 19,640                               | 19,695 | 19,751 | 19,806 | 19,861 | 19,916 | 19,971 | 20,026 | 20,081 | 20,137 |
| 370                                  | 20,192                               | 20,247 | 20,302 | 20,357 | 20,412 | 20,467 | 20,523 | 20,578 | 20,633 | 20,688 |
| 380                                  | 20,743                               | 20,798 | 20,853 | 20,909 | 20,964 | 21,019 | 21,074 | 21,129 | 21,184 | 21,239 |

| Температура<br>рабочего<br>конца, °С | Т. э. д. е., мВ, для температуры, °С |        |        |        |        |        |        |        |        |        |
|--------------------------------------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                      | 0                                    | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
| 390                                  | 21,295                               | 21,350 | 21,405 | 21,460 | 21,515 | 21,570 | 21,625 | 21,680 | 21,736 | 21,791 |
| 400                                  | 21,846                               | 21,901 | 21,956 | 22,011 | 22,066 | 22,122 | 22,177 | 22,232 | 22,287 | 22,342 |
| 410                                  | 22,397                               | 22,453 | 22,508 | 22,563 | 22,618 | 22,673 | 22,728 | 22,784 | 22,839 | 22,894 |
| 420                                  | 22,949                               | 23,004 | 23,060 | 23,115 | 23,170 | 23,225 | 23,280 | 23,336 | 23,391 | 23,446 |
| 430                                  | 23,501                               | 23,556 | 23,612 | 23,667 | 23,722 | 23,777 | 23,833 | 23,888 | 23,943 | 23,999 |
| 440                                  | 24,054                               | 24,109 | 24,164 | 24,220 | 24,275 | 24,330 | 24,386 | 24,441 | 24,496 | 24,552 |
| 450                                  | 24,607                               | 24,662 | 24,718 | 24,773 | 24,829 | 24,884 | 24,939 | 24,995 | 25,050 | 25,106 |
| 460                                  | 25,161                               | 25,217 | 25,272 | 25,327 | 25,383 | 25,438 | 25,494 | 25,549 | 25,605 | 25,661 |
| 470                                  | 25,716                               | 25,772 | 25,827 | 25,883 | 25,938 | 25,994 | 26,050 | 26,105 | 26,161 | 26,216 |
| 480                                  | 26,272                               | 26,328 | 26,383 | 26,439 | 26,495 | 26,551 | 26,606 | 26,662 | 26,718 | 26,774 |
| 490                                  | 26,829                               | 26,885 | 26,941 | 26,997 | 27,053 | 27,109 | 27,165 | 27,220 | 27,276 | 27,332 |
| 500                                  | 27,388                               | 27,444 | 27,500 | 27,556 | 27,612 | 27,668 | 27,724 | 27,780 | 27,836 | 27,893 |
| 510                                  | 27,949                               | 28,005 | 28,061 | 28,117 | 28,173 | 28,230 | 28,286 | 28,342 | 28,398 | 28,455 |
| 520                                  | 28,511                               | 28,567 | 28,624 | 28,680 | 28,736 | 28,793 | 28,849 | 28,906 | 28,962 | 29,019 |
| 530                                  | 29,075                               | 29,132 | 29,188 | 29,245 | 29,301 | 29,358 | 29,415 | 29,471 | 29,528 | 29,585 |
| 540                                  | 29,642                               | 29,698 | 29,755 | 29,812 | 29,869 | 29,926 | 29,983 | 30,039 | 30,096 | 30,153 |
| 550                                  | 30,210                               | 30,267 | 30,324 | 30,381 | 30,439 | 30,496 | 30,553 | 30,610 | 30,667 | 30,724 |
| 560                                  | 30,782                               | 30,839 | 30,896 | 30,954 | 31,011 | 31,068 | 31,126 | 31,183 | 31,241 | 31,298 |
| 570                                  | 31,356                               | 31,413 | 31,471 | 31,528 | 31,586 | 31,644 | 31,702 | 31,759 | 31,817 | 31,875 |
| 580                                  | 31,933                               | 31,991 | 32,048 | 32,106 | 32,164 | 32,222 | 32,280 | 32,338 | 32,396 | 32,455 |
| 590                                  | 32,513                               | 32,571 | 32,629 | 32,687 | 32,746 | 32,804 | 32,862 | 32,921 | 32,979 | 32,038 |
| 600                                  | 33,096                               | 33,155 | 33,213 | 33,272 | 33,330 | 33,389 | 33,448 | 33,506 | 33,565 | 33,624 |
| 610                                  | 33,683                               | 33,742 | 33,800 | 33,859 | 33,918 | 33,977 | 34,036 | 34,095 | 34,155 | 34,214 |
| 620                                  | 34,273                               | 34,332 | 34,391 | 34,451 | 34,510 | 34,569 | 34,629 | 34,688 | 34,748 | 34,807 |
| 630                                  | 34,867                               | 34,926 | 34,986 | 35,046 | 35,105 | 35,165 | 35,225 | 35,285 | 35,344 | 35,404 |
| 640                                  | 35,464                               | 35,524 | 35,584 | 35,644 | 35,704 | 35,764 | 35,825 | 35,885 | 35,945 | 36,005 |
| 650                                  | 36,066                               | 36,126 | 36,186 | 36,247 | 36,307 | 36,368 | 36,428 | 36,489 | 36,549 | 26,610 |
| 660                                  | 36,671                               | 36,732 | 36,792 | 36,853 | 36,914 | 36,975 | 37,036 | 37,097 | 37,158 | 37,219 |
| 670                                  | 37,280                               | 37,341 | 37,402 | 37,463 | 37,525 | 37,586 | 37,647 | 37,709 | 37,770 | 37,831 |
| 680                                  | 37,893                               | 37,954 | 38,016 | 38,078 | 38,139 | 38,201 | 38,262 | 38,324 | 38,386 | 38,448 |
| 690                                  | 38,510                               | 38,572 | 38,633 | 38,695 | 38,757 | 38,819 | 38,882 | 38,944 | 38,006 | 38,068 |

| Температура<br>рабочего<br>конца, °C | Т э д о, мВ, для температуры, °C |        |        |        |        |        |        |        |        |        |
|--------------------------------------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                      | 0                                | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
| 700                                  | 39,130                           | 39,192 | 39,255 | 39,317 | 39,379 | 39,442 | 39,504 | 39,567 | 39,629 | 39,692 |
| 710                                  | 39,754                           | 39,817 | 39,880 | 39,942 | 40,005 | 40,068 | 40,131 | 40,193 | 40,256 | 40,319 |
| 720                                  | 40,382                           | 40,445 | 40,508 | 40,571 | 40,634 | 40,697 | 40,760 | 40,823 | 40,886 | 40,950 |
| 730                                  | 41,013                           | 41,076 | 41,139 | 41,203 | 41,266 | 41,329 | 41,393 | 41,456 | 41,520 | 41,583 |
| 740                                  | 41,647                           | 41,710 | 41,774 | 41,837 | 41,901 | 41,965 | 42,028 | 42,092 | 42,156 | 42,219 |
| 750                                  | 42,283                           | 42,347 | 42,411 | 42,475 | 42,538 | 42,602 | 42,666 | 42,730 | 42,794 | 42,858 |
| 760                                  | 42,922                           | 42,986 | 43,050 | 43,114 | 43,178 | 43,242 | 43,306 | 43,370 | 43,435 | 43,499 |
| 770                                  | 43,563                           | 43,627 | 43,692 | 43,756 | 43,820 | 43,885 | 43,949 | 44,014 | 44,078 | 44,142 |
| 780                                  | 44,207                           | 44,271 | 44,336 | 44,400 | 44,465 | 44,529 | 44,594 | 44,658 | 44,723 | 44,788 |
| 790                                  | 44,852                           | 44,917 | 44,981 | 45,046 | 45,111 | 45,175 | 45,240 | 45,304 | 45,369 | 45,434 |
| 800                                  | 45,498                           | 45,563 | 45,627 | 45,692 | 45,757 | 45,821 | 45,886 | 45,950 | 46,015 | 46,080 |
| 810                                  | 46,144                           | 46,209 | 46,273 | 46,338 | 46,403 | 46,467 | 46,532 | 46,596 | 46,661 | 46,725 |
| 820                                  | 46,790                           | 46,854 | 46,919 | 46,983 | 47,047 | 47,112 | 47,176 | 47,241 | 47,305 | 47,369 |
| 830                                  | 47,434                           | 47,498 | 47,562 | 47,627 | 47,691 | 47,755 | 47,819 | 47,884 | 47,948 | 48,012 |
| 840                                  | 48,076                           | 48,140 | 48,204 | 48,269 | 48,333 | 48,397 | 48,461 | 48,525 | 48,589 | 48,653 |
| 850                                  | 48,716                           | 48,780 | 48,844 | 48,908 | 48,972 | 49,036 | 49,099 | 49,163 | 49,227 | 49,291 |
| 860                                  | 49,354                           | 49,418 | 49,481 | 49,545 | 49,608 | 49,672 | 49,735 | 49,799 | 49,862 | 49,926 |
| 870                                  | 49,989                           | 50,052 | 50,116 | 50,179 | 50,242 | 50,305 | 50,369 | 50,432 | 50,495 | 50,558 |
| 880                                  | 50,621                           | 50,684 | 50,747 | 50,810 | 50,873 | 50,936 | 50,998 | 51,061 | 51,124 | 51,187 |
| 890                                  | 51,249                           | 51,312 | 51,375 | 51,437 | 51,500 | 51,562 | 51,625 | 51,687 | 51,750 | 51,812 |
| 900                                  | 51,875                           | 51,937 | 51,999 | 52,061 | 52,124 | 52,186 | 52,248 | 52,310 | 52,372 | 52,434 |
| 910                                  | 52,496                           | 52,558 | 52,620 | 52,682 | 52,744 | 52,806 | 52,868 | 52,929 | 52,991 | 53,053 |
| 920                                  | 53,115                           | 53,176 | 53,238 | 53,299 | 53,361 | 53,422 | 53,484 | 53,545 | 53,607 | 53,668 |
| 930                                  | 53,729                           | 53,791 | 53,852 | 53,913 | 53,974 | 54,035 | 54,096 | 54,157 | 54,219 | 54,280 |
| 940                                  | 54,341                           | 54,401 | 54,462 | 54,523 | 54,584 | 54,645 | 54,706 | 54,766 | 54,827 | 54,888 |
| 950                                  | 54,948                           | 55,009 | 55,070 | 55,130 | 55,191 | 55,251 | 55,312 | 55,372 | 55,432 | 55,493 |
| 960                                  | 55,553                           | 55,613 | 55,674 | 55,734 | 55,794 | 55,854 | 55,914 | 55,974 | 56,035 | 56,095 |
| 970                                  | 56,155                           | 56,215 | 56,275 | 56,334 | 56,394 | 56,454 | 56,514 | 56,574 | 56,634 | 56,693 |
| 980                                  | 56,753                           | 56,813 | 56,873 | 56,932 | 56,992 | 57,051 | 57,111 | 57,170 | 57,230 | 57,289 |
| 990                                  | 57,349                           | 57,408 | 57,468 | 57,527 | 57,586 | 57,646 | 57,705 | 57,764 | 57,824 | 57,883 |
| 1000                                 | 57,942                           | 58,001 | 58,060 | 58,120 | 58,179 | 58,238 | 58,297 | 58,356 | 58,415 | 58,474 |



**Формулы для вычисления пределов допускаемых отклонений т. э. д. с. термопар  
термоэлектрических преобразователей в температурном эквиваленте  
от номинального значения**

| Тип термо-<br>электричес-<br>кого преоб-<br>разователя | Условное<br>обозначение<br>НСХ | Класс<br>допуска | Диапазон измере-<br>ний, °С  | Пределы допус-<br>каемых откло-<br>нений<br>$\pm \Delta t$ , °С | Диапазон измере-<br>ний, °С         | Пределы допус-<br>каемых откло-<br>нений<br>$\pm \Delta t$ , °С |
|--------------------------------------------------------|--------------------------------|------------------|------------------------------|-----------------------------------------------------------------|-------------------------------------|-----------------------------------------------------------------|
|                                                        |                                |                  | до 1989 г.                   |                                                                 | с 1989 г.                           |                                                                 |
| ТМК                                                    | МК(М)                          | —                | От —200 до 0<br>Св. 0 до 100 | $1,3 + 0,001 \cdot  t $<br>1,0                                  | —                                   | —                                                               |
|                                                        | МК(Т)                          | 3                | —                            | —                                                               | От —200 до —66<br>Св. 66 до 40      | $0,015 \cdot  t $<br>1,0                                        |
|                                                        |                                | 2                | —                            | —                                                               | От —40 до 135<br>Св. 135 до 400     | 1,0<br>$0,0075 \cdot t$                                         |
|                                                        |                                | 1                | —                            | —                                                               | От —40 до 125<br>Св. 125 до 350     | 0,5<br>$0,004 \cdot t$                                          |
| ТЖК                                                    | ЖК(Ј)                          | —                | —                            | —                                                               | От —200 до —100<br>Св. —100 до —40  | $1,0 + 0,02 \cdot  t $<br>3,0                                   |
|                                                        |                                | 2                | —                            | —                                                               | От —40 до 333,4<br>Св. 333,4 до 900 | 2,5<br>$0,0075 \cdot t$                                         |
|                                                        |                                | 1                | —                            | —                                                               | От —40 до 375<br>Св. 375 до 750     | 1,5<br>$0,004 \cdot t$                                          |

Продолжение

| Тип термо-<br>электричес-<br>кого преоб-<br>разователя | Условное<br>обозначение<br>НСХ | Класс<br>допуска | Диапазон измере-<br>ний, °С          | Пределы допус-<br>каемых откло-<br>нений<br>±Δ <i>t</i> , °С | Диапазон измере-<br>ний, °С              | Пределы допус-<br>каемых откло-<br>нений<br>±Δ <i>t</i> , °С |
|--------------------------------------------------------|--------------------------------|------------------|--------------------------------------|--------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------|
|                                                        |                                |                  | до 1989 г.                           |                                                              | с 1989 г.                                |                                                              |
| ТХК                                                    | ХК(L)                          | 3                | От —200 до —100<br>Св. —100 до 100   | 1,5+0,011·  <i>t</i>  <br>2,5                                | От —200 до —100<br>Св. —100 до 100       | 1,5+0,01·  <i>t</i>  <br>2,5                                 |
|                                                        |                                | 2                | От —40 до 300<br>Св. 300 до 800      | 2,5<br>0,7+0,006·  <i>t</i>                                  | От —40 до 300<br>Св. 300 до 800          | 2,5<br>0,7+0,005·  <i>t</i>                                  |
|                                                        | ХК(E)                          | 3                | —                                    | —                                                            | От —200 до<br>—166,7<br>Св. —166,7 до 40 | 0,015·  <i>t</i>  <br>2,5                                    |
|                                                        |                                | 2                | —                                    | —                                                            | От —40 до 333,4<br>Св. 333,4 до 900      | 2,5<br>0,0075· <i>t</i>                                      |
|                                                        |                                | 1                | —                                    | —                                                            | От —40 до 375<br>Св. 375 до 800          | 1,5<br>0,004· <i>t</i>                                       |
|                                                        | ТХА                            | ХА(K)            | 3                                    | От —200 до<br>—166,7<br>Св. —166,7 до 40                     | 0,015·  <i>t</i>  <br>2,5                | От —250 до<br>—166,7<br>Св. —166,7 до 40                     |
| 2                                                      |                                |                  | От —40 до 333,4<br>Св. 333,4 до 1300 | 2,5<br>0,0075· <i>t</i>                                      | От —40 до 333,4<br>Св. 333,4 до 1350     | 2,5<br>0,0075· <i>t</i>                                      |
| 1                                                      |                                |                  | —                                    | —                                                            | От —40 до 375<br>Св. 375 до 1350         | 1,5<br>0,004· <i>t</i>                                       |

| Тип термо-<br>электричес-<br>кого преоб-<br>разователя | Условное<br>обозначение<br>НСХ | Класс<br>допуска | Диапазон измере-<br>ний, °С      | Пределы допус-<br>каемых откло-<br>нений<br>$\pm \Delta t$ , °С | Диапазон измере-<br>ний, °С      | Пределы допус-<br>каемых откло-<br>нений<br>$\pm \Delta t$ , °С |
|--------------------------------------------------------|--------------------------------|------------------|----------------------------------|-----------------------------------------------------------------|----------------------------------|-----------------------------------------------------------------|
|                                                        |                                |                  | до 1989 г.                       |                                                                 | с 1989 г.                        |                                                                 |
| ТПП                                                    | ПП(S)                          | 2                | От 0 до 600<br>Св. 600 до 1600   | 1,5<br>0,0025·t                                                 | От 0 до 600<br>Св. 600 до 1700   | 1,5<br>0,0025·t                                                 |
|                                                        | ПП(R)                          | 1                | От 0 до 1100<br>Св. 1100 до 1600 | 1,0<br>1,0+0,003(t-1100)                                        | От 0 до 1100<br>Св. 1100 до 1600 | 1,0<br>1,0+0,003(t-1100)                                        |
| ТПР                                                    | ПР(B)                          | 3                | От 600 до 800<br>Св. 800 до 1800 | 4,0<br>0,005·t                                                  | От 600 до 800<br>Св. 800 до 1800 | 4,0<br>0,005·t                                                  |
|                                                        |                                | 2                | От 600 до 1700                   | 0,0025·t                                                        | От 600 до 1800                   | 0,0025·t                                                        |
| ТВР                                                    | ВР(A)                          | 3                | От 1000 до 2500                  | 0,01·t                                                          | От 1000 до 2550                  | 0,007·t                                                         |
|                                                        |                                | 2                | От 1000 до 2200                  | 0,0075·t                                                        | От 1000 до 2550                  | 0,005·t                                                         |

Примечания:

1.  $t$  — значение измеряемой температуры.
2. Пределы допускаемого отклонения т. э. д. с. термопар термоэлектрических преобразователей  $\Delta E$ , мВ, следует рассчитывать по формуле

$$\Delta E = \Delta t \frac{dE}{dt},$$

где  $\Delta t$  — предел допускаемого отклонения по таблице;

$\frac{dE}{dt}$  — чувствительность термопары, рассчитанная для измеренного значения температуры  $t$  на основании данных табл. 2—9, 9а—12а.

(Измененная редакция, Изм. № 1).

## ПРИЛОЖЕНИЕ 2

Справочное

## Тип ТВР

(диапазон температур от 1800 до 2500°C)

Номинальная статическая характеристика преобразования ВР (А)-2

| Температура<br>рабочего конца,<br>°C | Т. э. д. с., мВ | Температура<br>рабочего конца,<br>°C | Т. э. д. с., мВ |
|--------------------------------------|-----------------|--------------------------------------|-----------------|
| 1800                                 | 27,226          | 2200                                 | 31,408          |
| 1900                                 | 28,357          | 2300                                 | 32,304          |
| 2000                                 | 29,431          | 2400                                 | 33,138          |
| 2100                                 | 30,449          | 2500                                 | 33,928          |

## ПРИЛОЖЕНИЕ 3

Справочное

## Тип ТВР

(диапазон температур от 1800 до 2500°C)

Номинальная статическая характеристика преобразования ВР (А)-3

| Температура<br>рабочего конца,<br>°C | Т. э. д. с., мВ | Температура<br>рабочего конца,<br>°C | Т. э. д. с., мВ |
|--------------------------------------|-----------------|--------------------------------------|-----------------|
| 1800                                 | 26,767          | 2200                                 | 30,873          |
| 1900                                 | 27,879          | 2300                                 | 31,749          |
| 2000                                 | 28,936          | 2400                                 | 32,573          |
| 2100                                 | 29,934          | 2500                                 | 33,353          |

## ПРИЛОЖЕНИЕ 4

Справочное

## Тип ТВР

(диапазон температур от 2500 до 2800°C)

Номинальная статическая характеристика преобразования ВР(А)-1

| Температура<br>рабочего конца,<br>°C | Т. э. д. с., мВ | Температура<br>рабочего конца,<br>°C | Т. э. д. с., мВ |
|--------------------------------------|-----------------|--------------------------------------|-----------------|
| 2500                                 | 33,638          | 2700                                 | 35,470          |
| 2600                                 | 34,760          | 2800                                 | 36,120          |

## ПРИЛОЖЕНИЕ 7\*

Справочное

# АППРОКСИМИРУЮЩИЕ ПОЛИНОМЫ НОМИНАЛЬНЫХ СТАТИЧЕСКИХ ХАРАКТЕРИСТИК ПРЕОБРАЗОВАНИЯ

Аппроксимирующие полиномы номинальных статических характеристик преобразования термопар термоэлектрических преобразователей приведены в таблице

| Тип термо-<br>электриче-<br>ских преоб-<br>разователей | Условное обоз-<br>начение номи-<br>нальных стати-<br>ческих характе-<br>ристических преоб-<br>разования | Диапазон темпе-<br>ратур, °С | Аппроксимирующие полино-<br>мы и их коэффициенты                                                                                                                                                                                                                                             |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ТВР                                                    | ВР (А)-1                                                                                                | 0—2500                       | $E = \sum_{i=0}^8 A_i t^i$ $A_0 = 0$ $A_1 = 1,19737 \cdot 10^{-2}$ $A_2 = 1,64673 \cdot 10^{-5}$ $A_3 = -2,76110 \cdot 10^{-8}$ $A_4 = 2,73301 \cdot 10^{-11}$ $A_5 = -1,76069 \cdot 10^{-14}$ $A_6 = 6,94799 \cdot 10^{-18}$ $A_7 = -1,51512 \cdot 10^{-21}$ $A_8 = 1,39270 \cdot 10^{-25}$ |
| ТВР                                                    | ВР (А)-2                                                                                                | 0—1800                       | $E = \sum_{i=0}^8 A_i t^i$ $A_0 = 0$ $A_1 = 1,16273 \cdot 10^{-2}$ $A_2 = 2,14613 \cdot 10^{-5}$ $A_3 = -4,52528 \cdot 10^{-8}$ $A_4 = 5,82324 \cdot 10^{-11}$ $A_5 = -4,72749 \cdot 10^{-14}$ $A_6 = 2,27280 \cdot 10^{-17}$ $A_7 = -5,84909 \cdot 10^{-21}$ $A_8 = 6,14618 \cdot 10^{-25}$ |
| ТВР                                                    | ВР (А)-3                                                                                                | 0—1800                       | $E = \sum_{i=0}^8 A_i t^i$ $A_0 = 0$ $A_1 = 1,16717 \cdot 10^{-2}$ $A_2 = 1,82012 \cdot 10^{-5}$ $A_3 = -3,44207 \cdot 10^{-8}$ $A_4 = 3,96332 \cdot 10^{-11}$ $A_5 = -2,91817 \cdot 10^{-14}$ $A_6 = 1,27714 \cdot 10^{-17}$ $A_7 = -2,97586 \cdot 10^{-21}$ $A_8 = 2,78469 \cdot 10^{-25}$ |

\* Приложения 5, 6 (Исключены, Изм. № 1).

| Тип термо-<br>электриче-<br>ских преоб-<br>разователей | Условное обоз-<br>начение номи-<br>нальных стати-<br>ческих характе-<br>ристик преоб-<br>разования | Диапазон темпе-<br>ратур, °С | Аппроксимирующие полино-<br>мы и их коэффициенты                                                                                                                                                                                                                                                                      |
|--------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ТПР                                                    | ПР (В)                                                                                             | 300—1800                     | $E = \sum_{i=0}^8 A_i t^i$ $A_0 = 0$ $A_1 = -2,46746016 \cdot 10^{-4}$ $A_2 = 3,91021112 \cdot 10^{-8}$ $A_3 = -1,43071234 \cdot 10^{-9}$ $A_4 = 2,15091497 \cdot 10^{-12}$ $A_5 = -3,17578007 \cdot 10^{-15}$ $A_6 = 2,40103674 \cdot 10^{-18}$ $A_7 = -9,09281481 \cdot 10^{-22}$ $A_8 = 1,32995051 \cdot 10^{-25}$ |
| ТПП                                                    | ПП (S)                                                                                             | —50—630,74                   | $E = \sum_{i=0}^6 A_i t^i$ $A_0 = 0$ $A_1 = 5,39957823 \cdot 10^{-3}$ $A_2 = 1,25197700 \cdot 10^{-5}$ $A_3 = -2,24482180 \cdot 10^{-8}$ $A_4 = 2,84521649 \cdot 10^{-11}$ $A_5 = -2,24405845 \cdot 10^{-14}$ $A_6 = 8,50541669 \cdot 10^{-18}$                                                                       |
|                                                        |                                                                                                    | 630,74—1064,43               | $E = \sum_{i=0}^2 A_i t^i$ $A_0 = -2,98244816 \cdot 10^{-1}$ $A_1 = 8,23755282 \cdot 10^{-3}$ $A_2 = 1,64539099 \cdot 10^{-6}$                                                                                                                                                                                        |
| ТПП                                                    | ПП (S)                                                                                             | 1064,43—1665                 | $E = \sum_{i=0}^3 A_i \left( \frac{t-1365}{300} \right)^i$ $A_0 = 1,39434387 \cdot 10^1$ $A_1 = 3,63986866$ $A_2 = -5,02812061 \cdot 10^{-3}$ $A_3 = -4,24505464 \cdot 10^{-2}$                                                                                                                                       |
|                                                        |                                                                                                    | 1665—1767,6                  | $E = \sum_{i=0}^3 A_i \left( \frac{t-1715}{50} \right)^i$ $A_0 = 1,8113083 \cdot 10^1$ $A_1 = 5,6795375 \cdot 10^{-1}$ $A_2 = -1,2112492 \cdot 10^{-2}$ $A_3 = -2,8117589 \cdot 10^{-3}$                                                                                                                              |
|                                                        | ПП (R)                                                                                             | —50—630,74                   | $E = \sum_{i=0}^7 A_i t^i$ $A_0 = 0$ $A_1 = 5,289139 \cdot 10^{-3}$                                                                                                                                                                                                                                                   |

## Продолжение

| Тип термо-<br>электриче-<br>ских преоб-<br>разователей | Условное обоз-<br>начение номи-<br>нальным стати-<br>ческих характе-<br>ристик преоб-<br>разования | Диапазон темпе-<br>ратур, °С | Аппроксимирующие полино-<br>мы и их коэффициенты                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ТПП                                                    | ПП (R)                                                                                             | 630,74—1064,43               | $A_2=1,391111 \cdot 10^{-8}$<br>$A_3=-2,400524 \cdot 10^{-8}$<br>$A_4=3,620141 \cdot 10^{-11}$<br>$A_5=-4,464502 \cdot 10^{-14}$<br>$A_6=3,849769 \cdot 10^{-17}$<br>$A_7=-1,537264 \cdot 10^{-20}$                                                                                                                                                                                                   |
|                                                        |                                                                                                    |                              | $E = \sum_{i=0}^3 A_i t^i$<br>$A_0=-2,641801 \cdot 10^{-1}$<br>$A_1=8,046868 \cdot 10^{-3}$<br>$A_2=2,989229 \cdot 10^{-6}$<br>$A_3=-2,687606 \cdot 10^{-10}$                                                                                                                                                                                                                                         |
|                                                        |                                                                                                    |                              | $E = \sum_{i=0}^3 A_i \left( \frac{t-1365}{300} \right)^i$<br>$A_0=1,5540414 \cdot 10^1$<br>$A_1=4,2357773$<br>$A_2=1,4693087 \cdot 10^{-2}$<br>$A_3=-5,2213890 \cdot 10^{-2}$                                                                                                                                                                                                                        |
| ТХА                                                    | ХА (K)                                                                                             | 1064,43—1665                 | $E = \sum_{i=0}^3 A_i \left( \frac{t-1715}{50} \right)^i$<br>$A_0=2,0416695 \cdot 10^1$<br>$A_1=6,6850914 \cdot 10^{-1}$<br>$A_2=-1,2301472 \cdot 10^{-2}$<br>$A_3=-2,7861521 \cdot 10^{-3}$                                                                                                                                                                                                          |
|                                                        |                                                                                                    |                              | $E = \sum_{i=0}^{10} A_i t^i$<br>$A_0=0$<br>$A_1=3,9475433 \cdot 10^{-2}$<br>$A_2=2,746525251 \cdot 10^{-5}$<br>$A_3=-1,6565407 \cdot 10^{-7}$<br>$A_4=-1,5190912 \cdot 10^{-9}$<br>$A_5=-2,4881671 \cdot 10^{-11}$<br>$A_6=-2,4757918 \cdot 10^{-13}$<br>$A_7=-1,5585276 \cdot 10^{-15}$<br>$A_8=-5,9729921 \cdot 10^{-18}$<br>$A_9=-1,2688801 \cdot 10^{-20}$<br>$A_{10}=-1,1382797 \cdot 10^{-23}$ |
|                                                        |                                                                                                    |                              | $E = \sum_{i=0}^8 A_i t^i + 0,125 \exp. \left[ - \right.$<br>$\left. - \frac{1}{2} \left( \frac{t-127}{65} \right)^2 \right]$<br>$A_0=-1,8533063/10^{-2}$                                                                                                                                                                                                                                             |
|                                                        |                                                                                                    | 0—1372                       |                                                                                                                                                                                                                                                                                                                                                                                                       |

| Тип термо-<br>электриче-<br>ских преоб-<br>разователей | Условное обо-<br>значение номи-<br>нальных статиче-<br>ских характеристик преоб-<br>разования | Диапазон темпе-<br>ратур, °С | Аппроксимирующие полино-<br>мы и их коэффициенты                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ТХА                                                    | ХА (К)                                                                                        | 0—1372                       | $A_1 = 3,8918345 \cdot 10^{-2}$<br>$A_2 = 1,6645154 \cdot 10^{-5}$<br>$A_3 = -7,8702374 \cdot 10^{-8}$<br>$A_4 = 2,2835786 \cdot 10^{-10}$<br>$A_5 = -3,5700231 \cdot 10^{-13}$<br>$A_6 = 2,9932909 \cdot 10^{-16}$<br>$A_7 = -1,2849849 \cdot 10^{-19}$<br>$A_8 = 2,2239974 \cdot 10^{-23}$                                                                                                                                                                                                                                                                                              |
| ТХК                                                    | ХК (L)                                                                                        | -200—800                     | $E = \sum_{i=0}^8 A_i t^i$<br>$A_0 = -1,6496536 \cdot 10^{-5}$<br>$A_1 = 6,3298924 \cdot 10^{-2}$<br>$A_2 = 6,0048290 \cdot 10^{-5}$<br>$A_3 = -7,9470289 \cdot 10^{-8}$<br>$A_4 = 9,4694561 \cdot 10^{-11}$<br>$A_5 = -2,3391187 \cdot 10^{-14}$<br>$A_6 = -2,8771875 \cdot 10^{-16}$<br>$A_7 = 4,8460255 \cdot 10^{-19}$<br>$A_8 = -2,3388281 \cdot 10^{-22}$                                                                                                                                                                                                                           |
|                                                        | ХК (E)                                                                                        | -270—0                       | $E = \sum_{i=0}^{13} A_i t^i$<br>$A_0 = 0$<br>$A_1 = 5,8695857799 \cdot 10^{-2}$<br>$A_2 = 5,1667517705 \cdot 10^{-5}$<br>$A_3 = -4,4652683347 \cdot 10^{-7}$<br>$A_4 = -1,7346270905 \cdot 10^{-8}$<br>$A_5 = -4,8719368427 \cdot 10^{-10}$<br>$A_6 = -8,88965500447 \cdot 10^{-13}$<br>$A_7 = -1,0930767375 \cdot 10^{-13}$<br>$A_8 = -9,1784535039 \cdot 10^{-16}$<br>$A_9 = -5,2575158521 \cdot 10^{-18}$<br>$A_{10} = -2,0169601996 \cdot 10^{-20}$<br>$A_{11} = -4,9502138782 \cdot 10^{-23}$<br>$A_{12} = -7,0177980633 \cdot 10^{-26}$<br>$A_{13} = -4,3671808488 \cdot 10^{-29}$ |
|                                                        |                                                                                               | 0—1000                       | $E = \sum_{i=0}^9 A_i t^i$<br>$A_0 = 0$<br>$A_1 = 5,8695857799 \cdot 10^{-2}$<br>$A_2 = 4,3110945462 \cdot 10^{-5}$<br>$A_3 = 5,7220358202 \cdot 10^{-8}$<br>$A_4 = -5,4020668025 \cdot 10^{-10}$<br>$A_5 = 1,5425922111 \cdot 10^{-12}$                                                                                                                                                                                                                                                                                                                                                  |

## Продолжение

| Тип термо-<br>электриче-<br>ских преоб-<br>разователей | Условное обоз-<br>начение номи-<br>нальных стати-<br>ческих характе-<br>ристик преоб-<br>разования | Диапазон темпе-<br>ратур, °С | Аппроксимирующие полино-<br>мы и их коэффициенты                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ТМК                                                    | МК (М)                                                                                             | —200—100                     | $A_5 = -2,4850089136 \cdot 10^{-15}$<br>$A_7 = 2,3389721459 \cdot 10^{-18}$<br>$A_8 = -1,1946296815 \cdot 10^{-21}$<br>$A_9 = 2,5561127497 \cdot 10^{-25}$<br>$E = \sum_{i=0}^3 A_i t^i$<br>$A_0 = 0$<br>$A_1 = 42,63 \cdot 10^{-3}$<br>$A_2 = 5,03 \cdot 10^{-5}$<br>$A_3 = -4,5 \cdot 10^{-8}$                                                                                                                                                                                                                                                                                                                        |
| ТМК                                                    | МК (Т)                                                                                             | —270—0                       | $E = \sum_{i=0}^{14} A_i t^i$<br>$A_0 = 0$<br>$A_1 = 3,8740773840 \cdot 10^{-2}$<br>$A_2 = 4,4123932482 \cdot 10^{-5}$<br>$A_3 = 1,1405238498 \cdot 10^{-7}$<br>$A_4 = 1,9974406568 \cdot 10^{-8}$<br>$A_5 = 9,0445401187 \cdot 10^{-10}$<br>$A_6 = 2,2766018504 \cdot 10^{-11}$<br>$A_7 = 3,6247409380 \cdot 10^{-13}$<br>$A_8 = 3,8648924201 \cdot 10^{-15}$<br>$A_9 = 2,8298678519 \cdot 10^{-17}$<br>$A_{10} = 1,4281383349 \cdot 10^{-19}$<br>$A_{11} = 4,8833254364 \cdot 10^{-22}$<br>$A_{12} = 1,0803744683 \cdot 10^{-24}$<br>$A_{13} = 1,3949291026 \cdot 10^{-27}$<br>$A_{14} = 7,9795893156 \cdot 10^{-31}$ |
|                                                        |                                                                                                    | 0—400                        | $E = \sum_{i=0}^8 A_i t^i$<br>$A_0 = 0$<br>$A_1 = 3,8740773840 \cdot 10^{-2}$<br>$A_2 = 3,3190198092 \cdot 10^{-5}$<br>$A_3 = 2,0714183645 \cdot 10^{-7}$<br>$A_4 = -2,1945834823 \cdot 10^{-9}$<br>$A_5 = 1,1031900550 \cdot 10^{-11}$<br>$A_6 = -3,0927581998 \cdot 10^{-14}$<br>$A_7 = 4,5653337165 \cdot 10^{-17}$<br>$A_8 = -2,7616878040 \cdot 10^{-20}$                                                                                                                                                                                                                                                          |
| ТЖК                                                    | ЖК (J)                                                                                             | —210—760                     | $E = \sum_{i=0}^7 A_i t^i$<br>$A_0 = 0$<br>$A_1 = 5,0372753027 \cdot 10^{-2}$<br>$A_2 = 3,0425491284 \cdot 10^{-5}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

| Тип термо-<br>электриче-<br>ских преоб-<br>разователей | Условное обоз-<br>начение номи-<br>нальных стати-<br>ческих характе-<br>ристик преоб-<br>разования | Диапазон темпе-<br>ратур, °С | Аппроксимирующие полино-<br>мы и их коэффициенты                                                                                                                                                                                                  |
|--------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ТЖК                                                    | ЖК (J)                                                                                             | —210—760                     | $A_3 = -8,5669750464 \cdot 10^{-8}$<br>$A_4 = 1,3348825735 \cdot 10^{-10}$<br>$A_5 = -1,7022405966 \cdot 10^{-13}$<br>$A_6 = 1,9416091001 \cdot 10^{-16}$<br>$A_7 = -9,6391844859 \cdot 10^{-20}$                                                 |
|                                                        |                                                                                                    | 760—1200                     | $E = \sum_{i=0}^5 A_i t^i$<br>$A_0 = 2,9721751778 \cdot 10^2$<br>$A_1 = -1,5059632873$<br>$A_2 = 3,2051064215 \cdot 10^{-3}$<br>$A_3 = -3,2210174230 \cdot 10^{-6}$<br>$A_4 = 1,5949968788 \cdot 10^{-9}$<br>$A_5 = -3,1239801752 \cdot 10^{-13}$ |

(Измененная редакция, Изм. № 1).

## ПРИЛОЖЕНИЕ 7а

Обязательное

## Информационные данные о соответствии ГОСТ 3044—84 СТ СЭВ 1059—85

| ГОСТ 3044—84 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | СТ СЭВ 1059—85 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Пункт        | Содержание требований                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Пункт          | Содержание требований                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Приложение 1 | <p>Формулы для вычисления пределов допускаемых отклонений т.э.д.с. термопар термоэлектрических преобразователей в температурном эквиваленте от номинального значения:</p> <p>для типа ТМК с НСХ МК (М) в диапазоне измерений свыше 0 до 100°C:<br/>1,0</p> <p>для типа ТМК с НСХ МК (Т) классы допуска:<br/>1, 2, 3</p> <p>для типа ТХК с НСХ ХК (L) в диапазоне измерений от —200 до —100°C:<br/><math>1,5+0,011 t </math> — до 1989 г.<br/><math>1,5+0,01 t </math> — с 1989 г.</p> <p>в диапазоне измерений свыше 300 до 800°C:<br/><math>0,7+0,006 \cdot t</math> — до 1989 г.<br/><math>0,7+0,005 \cdot t</math> — с 1989 г.</p> <p>для типа ТХА классы допуска:<br/>1, 2, 3</p> <p>для типа ТПП классы допуска:<br/>1, 2</p> <p>для типа ТВР класса допуска 3 в диапазоне измерений от 1000 до 2500°C:<br/><math>0,01 \cdot t</math> — до 1989 г.</p> <p>в диапазоне измерений от 1000 до 2250°C:<br/><math>0,007 \cdot t</math> — с 1989 г.</p> | 2.3<br>Табл. 2 | <p>Допускаемые отклонения от НСХ термопреобразователей в температурном эквиваленте:<br/>для типа М в диапазоне измерений свыше 0 до 100°C:<br/>1,3;</p> <p>для типа Т классы допуска:<br/>1, 2, 3, «—»;</p> <p>для типа L в диапазоне измерений от —200 до —100;<br/><math>1,5-0,011 \cdot t</math>;</p> <p>в диапазоне измерений свыше 300 до 800:<br/><math>0,7+0,006 \cdot t</math>;</p> <p>для типа К классы допуска:<br/>1, 2, 3, «—»;</p> <p>для типов S и R классы допуска:<br/>1, 2, «—»;</p> <p>для типа А класса допуска 3 в диапазоне измерений от 1000 до 2500°C:<br/><math>0,01 \cdot t</math>;</p> |

| ГОСТ 3044—84 |                                                                                                                                                                                                                       | СТ СЭВ 1059—85 |                                                                                                                   |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------------------------------|
| Пункт        | Содержание требований                                                                                                                                                                                                 | Пункт          | Содержание требований                                                                                             |
|              | <p>для типа ТВР класса допуска 2 в диапазоне измерений от 1000 до 2200°C:</p> <p><math>0,0075 \cdot t</math> — до 1989 г.<br/>в диапазоне измерений от 1000 до 2550°C:<br/><math>0,005 \cdot t</math> — с 1989 г.</p> |                | <p>для типа ТВР класса допуска 2 в диапазоне измерений от 1000 до 2200°C:</p> <p><math>0,0075 \cdot t</math>;</p> |

(Введено дополнительно, Изм. № 1).

## ИНФОРМАЦИОННЫЕ ДАННЫЕ

- 1. РАЗРАБОТАН И ВНЕСЕН** Министерством приборостроения, средств автоматизации и систем управления

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- 2. УТВЕРЖДЕН И ВВЕДЕН В ДЕЙСТВИЕ** Постановлением Государственного комитета СССР по стандартам от 25.06.84 № 2059

- 3. Стандарт содержит все требования СТ СЭВ 1059—85**

- 4. Взамен** ГОСТ 3044—77

- 5. ССЫЛОЧНЫЕ НОРМАТИВНО-ТЕХНИЧЕСКИЕ ДОКУМЕНТЫ**

| Обозначение НТД, на который дана ссылка | Номер пункта |
|-----------------------------------------|--------------|
| ГОСТ 8.157—75                           | 1            |

- 6. Переиздание [июль 1989 г.] с Изменениями № 1, 2, 3, утвержденными в октябре 1986 г., феврале 1988 г., сентябре 1989 г. [ИУС 1—87, 5—88, 11—89].**

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| Величина | Единица      |               |         |
|----------|--------------|---------------|---------|
|          | Наименование | Обозначение   |         |
|          |              | международное | русское |

## ОСНОВНЫЕ ЕДИНИЦЫ СИ

|                               |           |     |      |
|-------------------------------|-----------|-----|------|
| Длина                         | метр      | m   | м    |
| Масса                         | килограмм | kg  | кг   |
| Время                         | секунда   | s   | с    |
| Сила электрического тока      | ампер     | A   | А    |
| Термодинамическая температура | кельвин   | K   | К    |
| Количество вещества           | моль      | mol | моль |
| Сила света                    | кандела   | cd  | кд   |

## ДОПОЛНИТЕЛЬНЫЕ ЕДИНИЦЫ СИ

|               |           |     |     |
|---------------|-----------|-----|-----|
| Плоский угол  | радиан    | rad | рад |
| Телесный угол | стерадиан | sr  | ср  |

## ПРОИЗВОДНЫЕ ЕДИНИЦЫ СИ, ИМЕЮЩИЕ СПЕЦИАЛЬНЫЕ НАИМЕНОВАНИЯ

| Величина                                 | Единица      |               |         | Выражение через основные и дополнительные единицы СИ                 |
|------------------------------------------|--------------|---------------|---------|----------------------------------------------------------------------|
|                                          | Наименование | Обозначение   |         |                                                                      |
|                                          |              | международное | русское |                                                                      |
| Частота                                  | герц         | Hz            | Гц      | с <sup>-1</sup>                                                      |
| Сила                                     | ньютон       | N             | Н       | м · кг · с <sup>-2</sup>                                             |
| Давление                                 | паскаль      | Pa            | Па      | м <sup>-1</sup> · кг · с <sup>-2</sup>                               |
| Энергия                                  | джоуль       | J             | Дж      | м <sup>2</sup> · кг · с <sup>-2</sup>                                |
| Мощность                                 | ватт         | W             | Вт      | м <sup>2</sup> · кг · с <sup>-3</sup>                                |
| Количество электричества                 | кулон        | C             | Кл      | с · А                                                                |
| Электрическое напряжение                 | вольт        | V             | В       | м <sup>2</sup> · кг · с <sup>-3</sup> · А <sup>-1</sup>              |
| Электрическая емкость                    | фарад        | F             | Ф       | м <sup>-2</sup> · кг <sup>-1</sup> · с <sup>4</sup> · А <sup>2</sup> |
| Электрическое сопротивление              | ом           | Ω             | Ом      | м <sup>2</sup> · кг · с <sup>-3</sup> · А <sup>-2</sup>              |
| Электрическая проводимость               | сименс       | S             | См      | м <sup>-2</sup> · кг <sup>-1</sup> · с <sup>3</sup> · А <sup>2</sup> |
| Поток магнитной индукции                 | вебер        | Wb            | Вб      | м <sup>2</sup> · кг · с <sup>-2</sup> · А <sup>-1</sup>              |
| Магнитная индукция                       | тесла        | T             | Тл      | кг · с <sup>-2</sup> · А <sup>-1</sup>                               |
| Индуктивность                            | генри        | H             | Гн      | м <sup>2</sup> · кг · с <sup>-2</sup> · А <sup>-2</sup>              |
| Световой поток                           | люмен        | lm            | лм      | кд · ср                                                              |
| Освещенность                             | люкс         | lx            | лк      | м <sup>-2</sup> · кд · ср                                            |
| Активность радионуклида                  | беккерель    | Bq            | Бк      | с <sup>-1</sup>                                                      |
| Поглощенная доза ионизирующего излучения | грэй         | Gy            | Гр      | м <sup>2</sup> · с <sup>-2</sup>                                     |
| Эквивалентная доза излучения             | зиверт       | Sv            | Зв      | м <sup>2</sup> · с <sup>-2</sup>                                     |