

NTC Thermistor R-T Table Sheet

R---T TABLE

R_{25°C}=100K Ω ± 1%

B_{25°C/50°C}=3950 ± 1%

| T | R _{max} | R _{nor} | R _{min} | T | R _{max} | R _{nor} | R _{min} |
|-----|------------------|------------------|------------------|----|------------------|------------------|------------------|
| -30 | 1805.1971 | 1733.2000 | 1663.6657 | 10 | 203.3838 | 199.9900 | 196.6338 |
| -29 | 1693.5863 | 1630.4080 | 1569.3019 | 11 | 193.7916 | 190.5578 | 187.3599 |
| -28 | 1593.9380 | 1534.4770 | 1476.9663 | 12 | 184.7142 | 181.6319 | 178.5838 |
| -27 | 1500.8930 | 1444.9030 | 1390.7495 | 13 | 176.1211 | 173.1822 | 170.2759 |
| -26 | 1413.9673 | 1361.2200 | 1310.2028 | 14 | 167.9835 | 165.1804 | 162.4083 |
| -25 | 1329.1367 | 1283.0000 | 1238.3016 | 15 | 159.8962 | 157.6000 | 155.3211 |
| -24 | 1252.8144 | 1209.3270 | 1167.1953 | 16 | 152.6170 | 150.4253 | 148.2502 |
| -23 | 1181.4336 | 1140.4240 | 1100.6928 | 17 | 145.7160 | 143.6234 | 141.5466 |
| -22 | 1114.6401 | 1075.9490 | 1038.4640 | 18 | 139.1712 | 137.1726 | 135.1891 |
| -21 | 1052.1085 | 1015.5880 | 980.2059 | 19 | 132.9622 | 131.0528 | 129.1578 |
| -20 | 990.8617 | 959.0500 | 928.1695 | 20 | 126.7793 | 125.2450 | 123.7170 |
| -19 | 936.0641 | 906.0117 | 876.8390 | 21 | 121.1240 | 119.6582 | 118.1984 |
| -18 | 884.6914 | 856.2883 | 828.7167 | 22 | 115.7568 | 114.3559 | 112.9608 |
| -17 | 836.5067 | 809.6506 | 783.5807 | 23 | 110.6613 | 109.3221 | 107.9884 |
| -16 | 791.2910 | 765.8865 | 741.2257 | 24 | 105.6340 | 104.5415 | 103.4506 |
| -15 | 746.7035 | 724.8000 | 703.4662 | 25 | 101.0000 | 100.0000 | 99.0000 |
| -14 | 706.3711 | 685.6507 | 665.4693 | 26 | 96.8195 | 95.8191 | 94.8195 |
| -13 | 668.5024 | 648.8929 | 629.7934 | 27 | 92.8384 | 91.8392 | 90.8415 |
| -12 | 632.9310 | 614.3649 | 596.2817 | 28 | 89.0074 | 88.0494 | 87.0928 |
| -11 | 599.5024 | 581.9169 | 564.7888 | 29 | 85.3582 | 84.4395 | 83.5222 |
| -10 | 566.5131 | 551.4100 | 536.6581 | 30 | 81.9874 | 81.0000 | 80.0167 |
| -9 | 537.0073 | 522.6908 | 508.7073 | 31 | 78.5700 | 77.6238 | 76.6815 |
| -8 | 509.2437 | 495.6674 | 482.4068 | 32 | 75.3161 | 74.4091 | 73.5058 |
| -7 | 483.1082 | 470.2286 | 457.6486 | 33 | 72.2170 | 71.3472 | 70.4812 |
| -6 | 458.4948 | 446.2714 | 434.3323 | 34 | 69.2643 | 68.4301 | 67.5994 |
| -5 | 434.1442 | 423.7000 | 413.4672 | 35 | 66.5901 | 65.6500 | 64.7167 |
| -4 | 411.9667 | 402.0560 | 392.3459 | 36 | 63.8857 | 62.9838 | 62.0884 |
| -3 | 391.0739 | 381.6658 | 372.4482 | 37 | 61.3075 | 60.4420 | 59.5827 |
| -2 | 371.3832 | 362.4488 | 353.6953 | 38 | 58.8489 | 58.0181 | 57.1933 |
| -1 | 352.8178 | 344.3301 | 336.0142 | 39 | 56.5037 | 55.7060 | 54.9141 |
| 0 | 334.4393 | 327.2400 | 320.1638 | 40 | 54.3774 | 53.5000 | 52.6316 |
| 1 | 317.8826 | 311.0397 | 304.3138 | 41 | 52.2133 | 51.3708 | 50.5370 |
| 2 | 302.2571 | 295.7506 | 289.3553 | 42 | 50.1482 | 49.3391 | 48.5382 |
| 3 | 287.5046 | 281.3157 | 275.2325 | 43 | 48.1771 | 47.3998 | 46.6304 |
| 4 | 273.5710 | 267.6820 | 261.8936 | 44 | 46.2952 | 45.5483 | 44.8090 |
| 5 | 259.7533 | 254.8000 | 249.9157 | 45 | 44.5864 | 43.7800 | 42.9836 |
| 6 | 247.2985 | 242.5827 | 237.9326 | 46 | 42.8302 | 42.0555 | 41.2905 |
| 7 | 235.5234 | 231.0321 | 226.6034 | 47 | 41.1535 | 40.4092 | 39.6741 |
| 8 | 224.3869 | 220.1080 | 215.8887 | 48 | 39.5522 | 38.8369 | 38.1304 |
| 9 | 213.8504 | 209.7724 | 205.7513 | 49 | 38.0227 | 37.3350 | 36.6558 |

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R—T TABLE

R_{25°C}=100K Ω ±1%

B_{25°C/50°C}=3950 ±1%

| T | R _{max} | R _{nor} | R _{min} | T | R _{max} | R _{nor} | R _{min} |
|----|------------------|------------------|------------------|-----|------------------|------------------|------------------|
| 50 | 36.6326 | 35.8999 | 35.1785 | 90 | 9.4159 | 9.1000 | 8.7939 |
| 51 | 35.3225 | 34.6160 | 33.9204 | 91 | 9.1231 | 8.8171 | 8.5205 |
| 52 | 34.0669 | 33.3855 | 32.7147 | 92 | 8.8410 | 8.5444 | 8.2571 |
| 53 | 32.8632 | 32.2059 | 31.5588 | 93 | 8.5691 | 8.2816 | 8.0031 |
| 54 | 31.7091 | 31.0748 | 30.4504 | 94 | 8.3069 | 8.0283 | 7.7583 |
| 55 | 30.6600 | 29.9900 | 29.3318 | 95 | 8.0667 | 7.7840 | 7.5105 |
| 56 | 29.5510 | 28.9053 | 28.2709 | 96 | 7.8282 | 7.5538 | 7.2884 |
| 57 | 28.4885 | 27.8660 | 27.2545 | 97 | 7.5979 | 7.3316 | 7.0740 |
| 58 | 27.4703 | 26.8700 | 26.2803 | 98 | 7.3756 | 7.1172 | 6.8670 |
| 59 | 26.4943 | 25.9153 | 25.3466 | 99 | 7.1610 | 6.9100 | 6.6672 |
| 60 | 25.6058 | 25.0000 | 24.4063 | 100 | 6.9643 | 6.7100 | 6.4644 |
| 61 | 24.6941 | 24.1099 | 23.5373 | 101 | 6.7739 | 6.5265 | 6.2876 |
| 62 | 23.8200 | 23.2565 | 22.7042 | 102 | 6.5896 | 6.3490 | 6.1166 |
| 63 | 22.9818 | 22.4381 | 21.9052 | 103 | 6.4113 | 6.1772 | 5.9511 |
| 64 | 22.1778 | 21.6531 | 21.1389 | 104 | 6.2388 | 6.0109 | 5.7909 |
| 65 | 21.4449 | 20.9000 | 20.3669 | 105 | 6.0808 | 5.8500 | 5.6274 |
| 66 | 20.7000 | 20.1741 | 19.6595 | 106 | 5.9075 | 5.6832 | 5.4669 |
| 67 | 19.9852 | 19.4774 | 18.9806 | 107 | 5.7400 | 5.5221 | 5.3119 |
| 68 | 19.2990 | 18.8087 | 18.3289 | 108 | 5.5780 | 5.3663 | 5.1620 |
| 69 | 18.6402 | 18.1666 | 17.7032 | 109 | 5.4214 | 5.2156 | 5.0171 |
| 70 | 18.0391 | 17.5500 | 17.0723 | 110 | 5.2777 | 5.0700 | 4.8700 |
| 71 | 17.4182 | 16.9459 | 16.4847 | 111 | 5.1310 | 4.9291 | 4.7346 |
| 72 | 16.8220 | 16.3659 | 15.9204 | 112 | 4.9892 | 4.7928 | 4.6037 |
| 73 | 16.2495 | 15.8089 | 15.3786 | 113 | 4.8519 | 4.6610 | 4.4771 |
| 74 | 15.6996 | 15.2739 | 14.8582 | 114 | 4.7192 | 4.5334 | 4.3546 |
| 75 | 15.1975 | 14.7600 | 14.3337 | 115 | 4.5973 | 4.4100 | 4.2299 |
| 76 | 14.7046 | 14.2813 | 13.8688 | 116 | 4.4729 | 4.2906 | 4.1154 |
| 77 | 14.2303 | 13.8206 | 13.4215 | 117 | 4.3524 | 4.1751 | 4.0046 |
| 78 | 13.7739 | 13.3774 | 12.9910 | 118 | 4.2358 | 4.0632 | 3.8973 |
| 79 | 13.3346 | 12.9507 | 12.5767 | 119 | 4.1229 | 3.9549 | 3.7934 |
| 80 | 12.9333 | 12.5400 | 12.1575 | 120 | 4.0192 | 3.8500 | 3.6877 |
| 81 | 12.5153 | 12.1347 | 11.7646 | 121 | 3.9054 | 3.7410 | 3.5833 |
| 82 | 12.1130 | 11.7447 | 11.3865 | 122 | 3.7954 | 3.6357 | 3.4824 |
| 83 | 11.7259 | 11.3694 | 11.0225 | 123 | 3.6891 | 3.5338 | 3.3848 |
| 84 | 11.3532 | 11.0080 | 10.6722 | 124 | 3.5862 | 3.4353 | 3.2904 |
| 85 | 11.0123 | 10.6600 | 10.3179 | 125 | 3.4915 | 3.3400 | 3.1947 |
| 86 | 10.6655 | 10.3243 | 9.9930 | 126 | 3.4027 | 3.2550 | 3.1135 |
| 87 | 10.3315 | 10.0010 | 9.6800 | 127 | 3.3166 | 3.1726 | 3.0346 |
| 88 | 10.0097 | 9.6895 | 9.3785 | 128 | 3.2330 | 3.0927 | 2.9582 |
| 89 | 9.6996 | 9.3893 | 9.0880 | 129 | 3.1520 | 3.0152 | 2.8841 |

NTC Thermistor R-T Table Sheet

R—T TABLE

R_{25°C}=100K Ω ± 1%

B_{25°C/50°C}=3950 ± 1%

| T | R _{max} | R _{nor} | R _{min} | T | R _{max} | R _{nor} | R _{min} |
|-----|------------------|------------------|------------------|-----|------------------|------------------|------------------|
| 130 | 3.0776 | 2.9400 | 2.8084 | 170 | 1.1861 | 1.1220 | 1.0613 |
| 131 | 2.9974 | 2.8634 | 2.7353 | 171 | 1.1582 | 1.0956 | 1.0363 |
| 132 | 2.9198 | 2.7893 | 2.6644 | 172 | 1.1310 | 1.0699 | 1.0120 |
| 133 | 2.8445 | 2.7173 | 2.5957 | 173 | 1.1046 | 1.0449 | 0.9884 |
| 134 | 2.7715 | 2.6476 | 2.5291 | 174 | 1.0790 | 1.0206 | 0.9654 |
| 135 | 2.7043 | 2.5800 | 2.4613 | 175 | 1.0551 | 0.9970 | 0.9419 |
| 136 | 2.6355 | 2.5144 | 2.3987 | 176 | 1.0326 | 0.9757 | 0.9218 |
| 137 | 2.5688 | 2.4507 | 2.3380 | 177 | 1.0107 | 0.9550 | 0.9023 |
| 138 | 2.5041 | 2.3890 | 2.2791 | 178 | 0.9893 | 0.9348 | 0.8832 |
| 139 | 2.4413 | 2.3291 | 2.2220 | 179 | 0.9685 | 0.9151 | 0.8646 |
| 140 | 2.3834 | 2.2710 | 2.1637 | 180 | 0.9493 | 0.8960 | 0.8457 |
| 141 | 2.3231 | 2.2135 | 2.1089 | 181 | 0.9271 | 0.8750 | 0.8258 |
| 142 | 2.2645 | 2.1577 | 2.0557 | 182 | 0.9056 | 0.8547 | 0.8067 |
| 143 | 2.2077 | 2.1035 | 2.0041 | 183 | 0.8846 | 0.8349 | 0.7880 |
| 144 | 2.1525 | 2.0510 | 1.9541 | 184 | 0.8643 | 0.8157 | 0.7699 |
| 145 | 2.1016 | 2.0000 | 1.9031 | 185 | 0.8453 | 0.7970 | 0.7514 |
| 146 | 2.0504 | 1.9513 | 1.8567 | 186 | 0.8279 | 0.7806 | 0.7360 |
| 147 | 2.0007 | 1.9040 | 1.8117 | 187 | 0.8110 | 0.7646 | 0.7209 |
| 148 | 1.9524 | 1.8580 | 1.7680 | 188 | 0.7944 | 0.7490 | 0.7062 |
| 149 | 1.9055 | 1.8134 | 1.7255 | 189 | 0.7783 | 0.7338 | 0.6918 |
| 150 | 1.8624 | 1.7700 | 1.6822 | 190 | 0.7633 | 0.7190 | 0.6771 |
| 151 | 1.8222 | 1.7319 | 1.6459 | 191 | 0.7463 | 0.7029 | 0.6619 |
| 152 | 1.7832 | 1.6947 | 1.6106 | 192 | 0.7297 | 0.6873 | 0.6472 |
| 153 | 1.7451 | 1.6586 | 1.5763 | 193 | 0.7136 | 0.6721 | 0.6329 |
| 154 | 1.7080 | 1.6233 | 1.5428 | 194 | 0.6979 | 0.6574 | 0.6191 |
| 155 | 1.6739 | 1.5890 | 1.5083 | 195 | 0.6835 | 0.6430 | 0.6049 |
| 156 | 1.6349 | 1.5520 | 1.4732 | 196 | 0.6698 | 0.6302 | 0.5928 |
| 157 | 1.5970 | 1.5160 | 1.4391 | 197 | 0.6566 | 0.6177 | 0.5811 |
| 158 | 1.5602 | 1.4811 | 1.4059 | 198 | 0.6436 | 0.6055 | 0.5696 |
| 159 | 1.5244 | 1.4471 | 1.3736 | 199 | 0.6309 | 0.5936 | 0.5584 |
| 160 | 1.4914 | 1.4140 | 1.3406 | 200 | 0.6192 | 0.5820 | 0.5469 |
| 161 | 1.4568 | 1.3812 | 1.3095 | 201 | 0.6082 | 0.5717 | 0.5373 |
| 162 | 1.4233 | 1.3494 | 1.2793 | 202 | 0.5976 | 0.5617 | 0.5279 |
| 163 | 1.3906 | 1.3184 | 1.2500 | 203 | 0.5872 | 0.5519 | 0.5187 |
| 164 | 1.3588 | 1.2883 | 1.2214 | 204 | 0.5769 | 0.5423 | 0.5096 |
| 165 | 1.3294 | 1.2590 | 1.1923 | 205 | 0.5677 | 0.5330 | 0.5004 |
| 166 | 1.2988 | 1.2301 | 1.1649 | 206 | 0.5565 | 0.5225 | 0.4905 |
| 167 | 1.2691 | 1.2019 | 1.1382 | 207 | 0.5455 | 0.5122 | 0.4808 |
| 168 | 1.2402 | 1.1745 | 1.1123 | 208 | 0.5349 | 0.5022 | 0.4715 |
| 169 | 1.2121 | 1.1479 | 1.0871 | 209 | 0.5245 | 0.4925 | 0.4624 |

NTC Thermistor R-T Table Sheet

R—T TABLE

R_{25°C}=100K Ω ± 1%

B_{25°C/50°C}=3950 ± 1%

| T | R _{max} | R _{nor} | R _{min} | T | R _{max} | R _{nor} | R _{min} |
|-----|------------------|------------------|------------------|-----|------------------|------------------|------------------|
| 210 | 0.5149 | 0.4830 | 0.4529 | 250 | 0.2471 | 0.2300 | 0.2141 |
| 211 | 0.5046 | 0.4733 | 0.4438 | 251 | 0.2430 | 0.2262 | 0.2106 |
| 212 | 0.4945 | 0.4639 | 0.4350 | 252 | 0.2388 | 0.2223 | 0.2070 |
| 213 | 0.4847 | 0.4547 | 0.4264 | 253 | 0.2348 | 0.2186 | 0.2035 |
| 214 | 0.4751 | 0.4457 | 0.4180 | 254 | 0.2309 | 0.2150 | 0.2002 |
| 215 | 0.4664 | 0.4370 | 0.4095 | 255 | 0.2273 | 0.2114 | 0.1966 |
| 216 | 0.4572 | 0.4284 | 0.4014 | 256 | 0.2235 | 0.2079 | 0.1934 |
| 217 | 0.4482 | 0.4200 | 0.3935 | 257 | 0.2199 | 0.2045 | 0.1902 |
| 218 | 0.4395 | 0.4118 | 0.3859 | 258 | 0.2162 | 0.2011 | 0.1871 |
| 219 | 0.4309 | 0.4038 | 0.3784 | 259 | 0.2127 | 0.1978 | 0.1840 |
| 220 | 0.4230 | 0.3960 | 0.3707 | 260 | 0.2094 | 0.1946 | 0.1808 |
| 221 | 0.4149 | 0.3884 | 0.3636 | 261 | 0.2060 | 0.1914 | 0.1779 |
| 222 | 0.4070 | 0.3810 | 0.3566 | 262 | 0.2026 | 0.1883 | 0.1750 |
| 223 | 0.3994 | 0.3739 | 0.3500 | 263 | 0.1994 | 0.1853 | 0.1722 |
| 224 | 0.3918 | 0.3668 | 0.3434 | 264 | 0.1962 | 0.1823 | 0.1694 |
| 225 | 0.3850 | 0.3600 | 0.3366 | 265 | 0.1932 | 0.1794 | 0.1666 |
| 226 | 0.3778 | 0.3533 | 0.3304 | 266 | 0.1901 | 0.1765 | 0.1639 |
| 227 | 0.3708 | 0.3467 | 0.3242 | 267 | 0.1871 | 0.1737 | 0.1613 |
| 228 | 0.3639 | 0.3403 | 0.3182 | 268 | 0.1842 | 0.1710 | 0.1588 |
| 229 | 0.3573 | 0.3341 | 0.3124 | 269 | 0.1813 | 0.1683 | 0.1563 |
| 230 | 0.3510 | 0.3280 | 0.3065 | 270 | 0.1785 | 0.1656 | 0.1536 |
| 231 | 0.3446 | 0.3220 | 0.3009 | 271 | 0.1757 | 0.1630 | 0.1512 |
| 232 | 0.3383 | 0.3161 | 0.2953 | 272 | 0.1729 | 0.1604 | 0.1488 |
| 233 | 0.3322 | 0.3104 | 0.2900 | 273 | 0.1702 | 0.1579 | 0.1465 |
| 234 | 0.3262 | 0.3048 | 0.2848 | 274 | 0.1676 | 0.1555 | 0.1443 |
| 235 | 0.3206 | 0.2993 | 0.2794 | 275 | 0.1652 | 0.1531 | 0.1419 |
| 236 | 0.3149 | 0.2940 | 0.2744 | 276 | 0.1626 | 0.1507 | 0.1397 |
| 237 | 0.3094 | 0.2888 | 0.2696 | 277 | 0.1601 | 0.1484 | 0.1375 |
| 238 | 0.3038 | 0.2836 | 0.2647 | 278 | 0.1576 | 0.1461 | 0.1354 |
| 239 | 0.2984 | 0.2786 | 0.2601 | 279 | 0.1553 | 0.1439 | 0.1334 |
| 240 | 0.2934 | 0.2737 | 0.2553 | 280 | 0.1530 | 0.1417 | 0.1312 |
| 241 | 0.2883 | 0.2689 | 0.2508 | 281 | 0.1508 | 0.1396 | 0.1293 |
| 242 | 0.2832 | 0.2642 | 0.2464 | 282 | 0.1485 | 0.1375 | 0.1273 |
| 243 | 0.2783 | 0.2596 | 0.2421 | 283 | 0.1462 | 0.1354 | 0.1254 |
| 244 | 0.2735 | 0.2551 | 0.2379 | 284 | 0.1441 | 0.1334 | 0.1235 |
| 245 | 0.2690 | 0.2507 | 0.2337 | 285 | 0.1420 | 0.1314 | 0.1216 |
| 246 | 0.2644 | 0.2464 | 0.2296 | 286 | 0.1400 | 0.1295 | 0.1198 |
| 247 | 0.2599 | 0.2422 | 0.2257 | 287 | 0.1378 | 0.1275 | 0.1180 |
| 248 | 0.2554 | 0.2380 | 0.2218 | 288 | 0.1359 | 0.1257 | 0.1163 |
| 249 | 0.2511 | 0.2340 | 0.2181 | 289 | 0.1338 | 0.1238 | 0.1145 |

R—T TABLE

R_{25°C}=100K Ω ± 1%

B_{25°C/50°C}=3950 ± 1%

| T | Rmax | Rnor | Rmin |
|-----|--------|--------|--------|
| 290 | 0.1320 | 0.1220 | 0.1128 |
| 291 | 0.1301 | 0.1202 | 0.1111 |
| 292 | 0.1282 | 0.1185 | 0.1095 |
| 293 | 0.1264 | 0.1168 | 0.1080 |
| 294 | 0.1245 | 0.1151 | 0.1064 |
| 295 | 0.1228 | 0.1134 | 0.1047 |
| 296 | 0.1211 | 0.1118 | 0.1033 |
| 297 | 0.1193 | 0.1102 | 0.1018 |
| 298 | 0.1176 | 0.1086 | 0.1003 |
| 299 | 0.1160 | 0.1071 | 0.0989 |
| 300 | 0.1145 | 0.1056 | 0.0974 |