

Temperature sensor NTC10K3 (B3977) standard 1% accuracy dependance of temperature

| Temp. (°) | Resistance (kΩ) | | | Temp. coef. (%/°) | Resist. tolerance (%) | | Temp. tolerance (°) | |
|--------------|-----------------|---------|---------|----------------------|--------------------------|------|------------------------|-------|
| | MIN. | CENTER. | MAX. | | MIN. | MAX. | MIN. | MAX. |
| -40 | 328.351 | 336.479 | 344.771 | -6.8 | -2.42 | 2.46 | 0.35 | -0.36 |
| -39 | 307.418 | 314.902 | 322.535 | -6.8 | -2.38 | 2.42 | 0.35 | -0.36 |
| -38 | 287.955 | 294.849 | 301.876 | -6.7 | -2.34 | 2.38 | 0.35 | -0.35 |
| -37 | 269.843 | 276.194 | 282.666 | -6.7 | -2.30 | 2.34 | 0.34 | -0.35 |
| -36 | 252.983 | 258.837 | 264.798 | -6.6 | -2.26 | 2.30 | 0.34 | -0.35 |
| -35 | 237.285 | 242.682 | 248.176 | -6.6 | -2.22 | 2.26 | 0.34 | -0.34 |
| -34 | 222.656 | 227.633 | 232.697 | -6.5 | -2.19 | 2.22 | 0.34 | -0.34 |
| -33 | 209.020 | 213.610 | 218.278 | -6.5 | -2.15 | 2.19 | 0.33 | -0.34 |
| -32 | 196.302 | 200.537 | 204.842 | -6.4 | -2.11 | 2.15 | 0.33 | -0.33 |
| -31 | 184.440 | 188.348 | 192.319 | -6.4 | -2.08 | 2.11 | 0.33 | -0.33 |
| -30 | 173.368 | 176.976 | 180.640 | -6.3 | -2.04 | 2.07 | 0.32 | -0.33 |
| -29 | 163.024 | 166.354 | 169.735 | -6.3 | -2.00 | 2.03 | 0.32 | -0.32 |
| -28 | 153.368 | 156.443 | 159.564 | -6.2 | -1.97 | 1.99 | 0.32 | -0.32 |
| -27 | 144.335 | 147.176 | 150.057 | -6.2 | -1.93 | 1.96 | 0.31 | -0.32 |
| -26 | 135.893 | 138.517 | 141.177 | -6.1 | -1.89 | 1.92 | 0.31 | -0.31 |
| -25 | 127.997 | 130.422 | 132.878 | -6.1 | -1.86 | 1.88 | 0.30 | -0.31 |
| -24 | 120.606 | 122.846 | 125.115 | -6.1 | -1.82 | 1.85 | 0.30 | -0.31 |
| -23 | 113.689 | 115.759 | 117.855 | -6.0 | -1.79 | 1.81 | 0.30 | -0.30 |
| -22 | 107.207 | 109.121 | 111.057 | -6.0 | -1.75 | 1.77 | 0.29 | -0.30 |
| -21 | 101.135 | 102.904 | 104.693 | -5.9 | -1.72 | 1.74 | 0.29 | -0.29 |
| -20 | 95.447 | 97.083 | 98.736 | -5.9 | -1.68 | 1.70 | 0.29 | -0.29 |
| -19 | 90.108 | 91.621 | 93.149 | -5.8 | -1.65 | 1.67 | 0.28 | -0.29 |
| -18 | 85.102 | 86.501 | 87.913 | -5.8 | -1.62 | 1.63 | 0.28 | -0.28 |
| -17 | 80.403 | 81.696 | 83.002 | -5.8 | -1.58 | 1.60 | 0.28 | -0.28 |
| -16 | 75.993 | 77.189 | 78.396 | -5.7 | -1.55 | 1.56 | 0.27 | -0.27 |
| -15 | 71.851 | 72.957 | 74.073 | -5.7 | -1.52 | 1.53 | 0.27 | -0.27 |
| -14 | 67.960 | 68.983 | 70.014 | -5.6 | -1.48 | 1.49 | 0.26 | -0.27 |
| -13 | 64.298 | 65.244 | 66.197 | -5.6 | -1.45 | 1.46 | 0.26 | -0.26 |
| -12 | 60.861 | 61.736 | 62.617 | -5.6 | -1.42 | 1.43 | 0.26 | -0.26 |
| -11 | 57.623 | 58.433 | 59.247 | -5.5 | -1.38 | 1.39 | 0.25 | -0.25 |
| -10 | 54.580 | 55.329 | 56.081 | -5.5 | -1.35 | 1.36 | 0.25 | -0.25 |
| -9 | 51.715 | 52.407 | 53.102 | -5.4 | -1.32 | 1.33 | 0.24 | -0.24 |
| -8 | 49.018 | 49.658 | 50.301 | -5.4 | -1.29 | 1.29 | 0.24 | -0.24 |
| -7 | 46.473 | 47.065 | 47.659 | -5.4 | -1.26 | 1.26 | 0.23 | -0.24 |
| -6 | 44.080 | 44.627 | 45.176 | -5.3 | -1.23 | 1.23 | 0.23 | -0.23 |
| -5 | 41.821 | 42.327 | 42.834 | -5.3 | -1.19 | 1.20 | 0.23 | -0.23 |
| -4 | 39.693 | 40.160 | 40.628 | -5.3 | -1.16 | 1.17 | 0.22 | -0.22 |
| -3 | 37.681 | 38.113 | 38.545 | -5.2 | -1.13 | 1.13 | 0.22 | -0.22 |
| -2 | 35.787 | 36.186 | 36.585 | -5.2 | -1.10 | 1.10 | 0.21 | -0.21 |

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|----|--------|--------|--------|------|-------|------|------|-------|
| -1 | 33.999 | 34.367 | 34.735 | -5.1 | -1.07 | 1.07 | 0.21 | -0.21 |
| 0 | 32.313 | 32.650 | 32.987 | -5.2 | -1.03 | 1.03 | 0.20 | -0.20 |
| 1 | 30.712 | 31.030 | 31.349 | -5.1 | -1.03 | 1.03 | 0.20 | -0.20 |
| 2 | 29.198 | 29.498 | 29.799 | -5.1 | -1.02 | 1.02 | 0.20 | -0.20 |
| 3 | 27.767 | 28.051 | 28.335 | -5.1 | -1.01 | 1.01 | 0.20 | -0.20 |
| 4 | 26.415 | 26.683 | 26.951 | -5.0 | -1.01 | 1.01 | 0.20 | -0.20 |
| 5 | 25.137 | 25.391 | 25.644 | -5.0 | -1.00 | 1.00 | 0.20 | -0.20 |
| 6 | 23.930 | 24.170 | 24.409 | -5.0 | -0.99 | 0.99 | 0.20 | -0.20 |
| 7 | 22.788 | 23.015 | 23.242 | -4.9 | -0.99 | 0.99 | 0.20 | -0.20 |
| 8 | 21.704 | 21.918 | 22.133 | -4.9 | -0.98 | 0.98 | 0.20 | -0.20 |
| 9 | 20.681 | 20.884 | 21.087 | -4.9 | -0.97 | 0.97 | 0.20 | -0.20 |
| 10 | 19.710 | 19.902 | 20.095 | -4.8 | -0.97 | 0.97 | 0.20 | -0.20 |
| 11 | 18.788 | 18.970 | 19.152 | -4.8 | -0.96 | 0.96 | 0.20 | -0.20 |
| 12 | 17.918 | 18.091 | 18.263 | -4.8 | -0.95 | 0.95 | 0.20 | -0.20 |
| 13 | 17.092 | 17.256 | 17.419 | -4.7 | -0.95 | 0.95 | 0.20 | -0.20 |
| 14 | 16.306 | 16.461 | 16.616 | -4.7 | -0.94 | 0.94 | 0.20 | -0.20 |
| 15 | 15.564 | 15.710 | 15.857 | -4.7 | -0.93 | 0.93 | 0.20 | -0.20 |
| 16 | 14.861 | 15.000 | 15.139 | -4.6 | -0.93 | 0.93 | 0.20 | -0.20 |
| 17 | 14.193 | 14.325 | 14.457 | -4.6 | -0.92 | 0.92 | 0.20 | -0.20 |
| 18 | 13.556 | 13.681 | 13.807 | -4.6 | -0.92 | 0.92 | 0.20 | -0.20 |
| 19 | 12.954 | 13.073 | 13.192 | -4.6 | -0.91 | 0.91 | 0.20 | -0.20 |
| 20 | 12.378 | 12.491 | 12.604 | -4.5 | -0.90 | 0.90 | 0.20 | -0.20 |
| 21 | 11.833 | 11.940 | 12.048 | -4.5 | -0.90 | 0.90 | 0.20 | -0.20 |
| 22 | 11.319 | 11.421 | 11.523 | -4.5 | -0.89 | 0.89 | 0.20 | -0.20 |
| 23 | 10.826 | 10.924 | 11.021 | -4.4 | -0.89 | 0.89 | 0.20 | -0.20 |
| 24 | 10.357 | 10.448 | 10.540 | -4.4 | -0.88 | 0.88 | 0.20 | -0.20 |
| 25 | 9.913 | 10.000 | 10.087 | -4.4 | -0.87 | 0.87 | 0.20 | -0.20 |
| 26 | 9.491 | 9.574 | 9.657 | -4.3 | -0.87 | 0.87 | 0.20 | -0.20 |
| 27 | 9.086 | 9.165 | 9.245 | -4.3 | -0.87 | 0.87 | 0.20 | -0.20 |
| 28 | 8.703 | 8.779 | 8.854 | -4.3 | -0.86 | 0.86 | 0.20 | -0.20 |
| 29 | 8.334 | 8.406 | 8.478 | -4.3 | -0.86 | 0.86 | 0.20 | -0.20 |
| 30 | 7.987 | 8.055 | 8.124 | -4.3 | -0.85 | 0.85 | 0.20 | -0.20 |
| 31 | 7.657 | 7.722 | 7.787 | -4.2 | -0.84 | 0.84 | 0.20 | -0.20 |
| 32 | 7.340 | 7.402 | 7.464 | -4.2 | -0.84 | 0.84 | 0.20 | -0.20 |
| 33 | 7.037 | 7.096 | 7.155 | -4.2 | -0.84 | 0.84 | 0.20 | -0.20 |
| 34 | 6.751 | 6.807 | 6.864 | -4.1 | -0.83 | 0.83 | 0.20 | -0.20 |
| 35 | 6.478 | 6.532 | 6.586 | -4.1 | -0.82 | 0.82 | 0.20 | -0.20 |
| 36 | 6.214 | 6.266 | 6.317 | -4.1 | -0.82 | 0.82 | 0.20 | -0.20 |
| 37 | 5.968 | 6.017 | 6.066 | -4.1 | -0.81 | 0.81 | 0.20 | -0.20 |
| 38 | 5.730 | 5.777 | 5.824 | -4.0 | -0.81 | 0.81 | 0.20 | -0.20 |
| 39 | 5.502 | 5.546 | 5.591 | -4.0 | -0.80 | 0.80 | 0.20 | -0.20 |
| 40 | 5.282 | 5.324 | 5.367 | -4.0 | -0.80 | 0.80 | 0.20 | -0.20 |
| 41 | 5.075 | 5.115 | 5.156 | -4.0 | -0.80 | 0.80 | 0.20 | -0.20 |
| 42 | 4.877 | 4.916 | 4.954 | -4.0 | -0.79 | 0.79 | 0.20 | -0.20 |
| 43 | 4.688 | 4.725 | 4.762 | -3.9 | -0.79 | 0.79 | 0.20 | -0.20 |

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|----|-------|-------|-------|------|-------|------|------|-------|
| 44 | 4.507 | 4.543 | 4.578 | -3.9 | -0.78 | 0.78 | 0.20 | -0.20 |
| 45 | 4.334 | 4.368 | 4.402 | -3.9 | -0.78 | 0.78 | 0.20 | -0.20 |
| 46 | 4.169 | 4.201 | 4.234 | -3.9 | -0.77 | 0.77 | 0.20 | -0.20 |
| 47 | 4.010 | 4.041 | 4.072 | -3.8 | -0.77 | 0.77 | 0.20 | -0.20 |
| 48 | 3.858 | 3.888 | 3.918 | -3.8 | -0.76 | 0.76 | 0.20 | -0.20 |
| 49 | 3.714 | 3.742 | 3.770 | -3.8 | -0.76 | 0.76 | 0.20 | -0.20 |
| 50 | 3.575 | 3.602 | 3.629 | -3.8 | -0.75 | 0.75 | 0.20 | -0.20 |
| 51 | 3.442 | 3.468 | 3.494 | -3.7 | -0.75 | 0.75 | 0.20 | -0.20 |
| 52 | 3.315 | 3.340 | 3.365 | -3.7 | -0.74 | 0.74 | 0.20 | -0.20 |
| 53 | 3.193 | 3.217 | 3.241 | -3.7 | -0.74 | 0.74 | 0.20 | -0.20 |
| 54 | 3.076 | 3.099 | 3.122 | -3.7 | -0.74 | 0.74 | 0.20 | -0.20 |
| 55 | 2.964 | 2.986 | 3.008 | -3.7 | -0.73 | 0.73 | 0.20 | -0.20 |
| 56 | 2.857 | 2.878 | 2.899 | -3.6 | -0.73 | 0.73 | 0.20 | -0.20 |
| 57 | 2.754 | 2.774 | 2.794 | -3.6 | -0.72 | 0.72 | 0.20 | -0.20 |
| 58 | 2.656 | 2.675 | 2.694 | -3.6 | -0.72 | 0.72 | 0.20 | -0.20 |
| 59 | 2.561 | 2.579 | 2.597 | -3.6 | -0.72 | 0.72 | 0.20 | -0.20 |
| 60 | 2.470 | 2.488 | 2.506 | -3.6 | -0.71 | 0.71 | 0.20 | -0.20 |
| 61 | 2.383 | 2.400 | 2.417 | -3.5 | -0.71 | 0.71 | 0.20 | -0.20 |
| 62 | 2.300 | 2.316 | 2.332 | -3.5 | -0.70 | 0.70 | 0.20 | -0.20 |
| 63 | 2.219 | 2.235 | 2.251 | -3.5 | -0.70 | 0.70 | 0.20 | -0.20 |
| 64 | 2.142 | 2.157 | 2.172 | -3.5 | -0.70 | 0.70 | 0.20 | -0.20 |
| 65 | 2.069 | 2.083 | 2.097 | -3.5 | -0.69 | 0.69 | 0.20 | -0.20 |
| 66 | 1.997 | 2.011 | 2.025 | -3.4 | -0.69 | 0.69 | 0.20 | -0.20 |
| 67 | 1.929 | 1.942 | 1.955 | -3.4 | -0.68 | 0.68 | 0.20 | -0.20 |
| 68 | 1.863 | 1.876 | 1.889 | -3.4 | -0.68 | 0.68 | 0.20 | -0.20 |
| 69 | 1.801 | 1.813 | 1.825 | -3.4 | -0.68 | 0.68 | 0.20 | -0.20 |
| 70 | 1.740 | 1.752 | 1.764 | -3.4 | -0.67 | 0.67 | 0.20 | -0.20 |
| 71 | 1.681 | 1.693 | 1.705 | -3.4 | -0.70 | 0.70 | 0.21 | -0.21 |
| 72 | 1.625 | 1.637 | 1.649 | -3.4 | -0.72 | 0.72 | 0.21 | -0.21 |
| 73 | 1.572 | 1.584 | 1.596 | -3.3 | -0.74 | 0.74 | 0.22 | -0.22 |
| 74 | 1.520 | 1.532 | 1.544 | -3.3 | -0.76 | 0.76 | 0.23 | -0.23 |
| 75 | 1.470 | 1.482 | 1.493 | -3.3 | -0.78 | 0.78 | 0.24 | -0.24 |
| 76 | 1.422 | 1.434 | 1.445 | -3.3 | -0.80 | 0.80 | 0.24 | -0.24 |
| 77 | 1.375 | 1.387 | 1.398 | -3.3 | -0.82 | 0.82 | 0.25 | -0.25 |
| 78 | 1.330 | 1.342 | 1.353 | -3.3 | -0.84 | 0.84 | 0.26 | -0.26 |
| 79 | 1.287 | 1.299 | 1.310 | -3.2 | -0.86 | 0.86 | 0.26 | -0.27 |
| 80 | 1.245 | 1.256 | 1.267 | -3.2 | -0.88 | 0.88 | 0.27 | -0.27 |
| 81 | 1.205 | 1.216 | 1.227 | -3.2 | -0.90 | 0.90 | 0.28 | -0.28 |
| 82 | 1.168 | 1.179 | 1.189 | -3.2 | -0.92 | 0.92 | 0.29 | -0.29 |
| 83 | 1.131 | 1.141 | 1.152 | -3.2 | -0.94 | 0.94 | 0.29 | -0.30 |
| 84 | 1.095 | 1.105 | 1.116 | -3.2 | -0.95 | 0.96 | 0.30 | -0.30 |
| 85 | 1.061 | 1.071 | 1.082 | -3.1 | -0.97 | 0.98 | 0.31 | -0.31 |

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|-----|-------|-------|-------|------|-------|------|------|-------|
| 86 | 1.028 | 1.038 | 1.048 | -3.1 | -0.99 | 1.00 | 0.32 | -0.32 |
| 87 | 0.996 | 1.006 | 1.016 | -3.1 | -1.01 | 1.02 | 0.32 | -0.33 |
| 88 | 0.965 | 0.975 | 0.985 | -3.1 | -1.03 | 1.03 | 0.33 | -0.33 |
| 89 | 0.935 | 0.945 | 0.955 | -3.1 | -1.05 | 1.05 | 0.34 | -0.34 |
| 90 | 0.907 | 0.917 | 0.927 | -3.1 | -1.07 | 1.07 | 0.35 | -0.35 |
| 91 | 0.879 | 0.889 | 0.898 | -3.0 | -1.08 | 1.09 | 0.36 | -0.36 |
| 92 | 0.852 | 0.862 | 0.872 | -3.0 | -1.10 | 1.11 | 0.36 | -0.37 |
| 93 | 0.827 | 0.836 | 0.846 | -3.0 | -1.12 | 1.13 | 0.37 | -0.37 |
| 94 | 0.802 | 0.811 | 0.821 | -3.0 | -1.14 | 1.15 | 0.38 | -0.38 |
| 95 | 0.778 | 0.787 | 0.796 | -3.0 | -1.16 | 1.16 | 0.39 | -0.39 |
| 96 | 0.755 | 0.764 | 0.773 | -3.0 | -1.17 | 1.18 | 0.40 | -0.40 |
| 97 | 0.733 | 0.742 | 0.751 | -3.0 | -1.19 | 1.20 | 0.40 | -0.41 |
| 98 | 0.712 | 0.721 | 0.729 | -2.9 | -1.21 | 1.22 | 0.41 | -0.42 |
| 99 | 0.691 | 0.699 | 0.708 | -2.9 | -1.23 | 1.24 | 0.42 | -0.42 |
| 100 | 0.671 | 0.679 | 0.688 | -2.9 | -1.24 | 1.25 | 0.43 | -0.43 |
| 101 | 0.651 | 0.660 | 0.668 | -2.9 | -1.26 | 1.27 | 0.44 | -0.44 |
| 102 | 0.633 | 0.641 | 0.649 | -2.9 | -1.28 | 1.29 | 0.44 | -0.45 |
| 103 | 0.615 | 0.623 | 0.631 | -2.9 | -1.29 | 1.31 | 0.45 | -0.46 |
| 104 | 0.598 | 0.605 | 0.614 | -2.8 | -1.31 | 1.32 | 0.46 | -0.47 |
| 105 | 0.580 | 0.588 | 0.596 | -2.8 | -1.33 | 1.34 | 0.47 | -0.47 |