



TEMPERATURE VS. RESISTANCE CURVE

100,000 Ω NTC THERMISTOR, SENSOR CODE 09

| TEMPERATURE (°C) | RESISTANCE (Ω) | TEMPERATURE (°F) | TEMPERATURE (°C) | RESISTANCE (Ω) | TEMPERATURE (°F) | TEMPERATURE (°C) | RESISTANCE (Ω) | TEMPERATURE (°F) |
|------------------|----------------|------------------|------------------|----------------|------------------|------------------|----------------|------------------|
| -40.0 | 4070000 | -40.0 | 14.0 | 169900 | 57.2 | 68.0 | 16690 | 154.4 |
| -39.0 | 3798000 | -38.2 | 15.0 | 161700 | 59.0 | 69.0 | 16080 | 156.2 |
| -38.0 | 3546000 | -36.4 | 16.0 | 153900 | 60.8 | 70.0 | 15500 | 158.0 |
| -37.0 | 3312000 | -34.6 | 17.0 | 146500 | 62.6 | 71.0 | 14940 | 159.8 |
| -36.0 | 3095000 | -32.8 | 18.0 | 139600 | 64.4 | 72.0 | 14410 | 161.6 |
| -35.0 | 2893000 | -31.0 | 19.0 | 133000 | 66.2 | 73.0 | 13900 | 163.4 |
| -34.0 | 2706000 | -29.2 | 20.0 | 126700 | 68.0 | 74.0 | 13410 | 165.2 |
| -33.0 | 2532000 | -27.4 | 21.0 | 120800 | 69.8 | 75.0 | 12930 | 167.0 |
| -32.0 | 2369000 | -25.6 | 22.0 | 115200 | 71.6 | 76.0 | 12480 | 168.8 |
| -31.0 | 2218000 | -23.8 | 23.0 | 109800 | 73.4 | 77.0 | 12050 | 170.6 |
| -30.0 | 2078000 | -22.0 | 24.0 | 104800 | 75.2 | 78.0 | 11630 | 172.4 |
| -29.0 | 1946000 | -20.2 | 25.0 | 100000 | 77.0 | 79.0 | 11230 | 174.2 |
| -28.0 | 1824000 | -18.4 | 26.0 | 95450 | 78.8 | 80.0 | 10840 | 176.0 |
| -27.0 | 1710000 | -16.6 | 27.0 | 91120 | 80.6 | 81.0 | 10470 | 177.8 |
| -26.0 | 1604000 | -14.8 | 28.0 | 87020 | 82.4 | 82.0 | 10110 | 179.6 |
| -25.0 | 1505000 | -13.0 | 29.0 | 83120 | 84.2 | 83.0 | 9769 | 181.4 |
| -24.0 | 1413000 | -11.2 | 30.0 | 79420 | 86.0 | 84.0 | 9439 | 183.2 |
| -23.0 | 1327000 | -9.4 | 31.0 | 75900 | 87.8 | 85.0 | 9122 | 185.0 |
| -22.0 | 1247000 | -7.6 | 32.0 | 72560 | 89.6 | 86.0 | 8817 | 186.8 |
| -21.0 | 1173000 | -5.8 | 33.0 | 69380 | 91.4 | 87.0 | 8524 | 188.6 |
| -20.0 | 1103000 | -4.0 | 34.0 | 66360 | 93.2 | 88.0 | 8241 | 190.4 |
| -19.0 | 1038000 | -2.2 | 35.0 | 63480 | 95.0 | 89.0 | 7969 | 192.2 |
| -18.0 | 977600 | -0.4 | 36.0 | 60740 | 96.8 | 90.0 | 7708 | 194.0 |
| -17.0 | 920900 | 1.4 | 37.0 | 58140 | 98.6 | 91.0 | 7456 | 195.8 |
| -16.0 | 867700 | 3.2 | 38.0 | 55660 | 100.4 | 92.0 | 7213 | 197.6 |
| -15.0 | 818000 | 5.0 | 39.0 | 53300 | 102.2 | 93.0 | 6979 | 199.4 |
| -14.0 | 771300 | 6.8 | 40.0 | 51050 | 104.0 | 94.0 | 6754 | 201.2 |
| -13.0 | 727600 | 8.6 | 41.0 | 48910 | 105.8 | 95.0 | 6538 | 203.0 |
| -12.0 | 686500 | 10.4 | 42.0 | 46860 | 107.6 | 96.0 | 6329 | 204.8 |
| -11.0 | 648000 | 12.2 | 43.0 | 44920 | 109.4 | 97.0 | 6129 | 206.6 |
| -10.0 | 611900 | 14.0 | 44.0 | 43060 | 111.2 | 98.0 | 5935 | 208.4 |
| -9.0 | 578000 | 15.8 | 45.0 | 41290 | 113.0 | 99.0 | 5749 | 210.2 |
| -8.0 | 546100 | 17.6 | 46.0 | 39600 | 114.8 | 100.0 | 5569 | 212.0 |
| -7.0 | 516100 | 19.4 | 47.0 | 37990 | 116.6 | 101.0 | 5396 | 213.8 |
| -6.0 | 488000 | 21.2 | 48.0 | 36460 | 118.4 | 102.0 | 5230 | 215.6 |
| -5.0 | 461500 | 23.0 | 49.0 | 34990 | 120.2 | 103.0 | 5069 | 217.4 |
| -4.0 | 436700 | 24.8 | 50.0 | 33590 | 122.0 | 104.0 | 4914 | 219.2 |
| -3.0 | 413300 | 26.6 | 51.0 | 32250 | 123.8 | 105.0 | 4764 | 221.0 |
| -2.0 | 391200 | 28.4 | 52.0 | 30980 | 125.6 | 106.0 | 4620 | 222.8 |
| -1.0 | 370500 | 30.2 | 53.0 | 29760 | 127.4 | 107.0 | 4480 | 224.6 |
| 0.0 | 351000 | 32.0 | 54.0 | 28590 | 129.2 | 108.0 | 4346 | 226.4 |
| 1.0 | 332600 | 33.8 | 55.0 | 27470 | 131.0 | 109.0 | 4216 | 228.2 |
| 2.0 | 315300 | 35.6 | 56.0 | 26410 | 132.8 | 110.0 | 4090 | 230.0 |
| 3.0 | 298900 | 37.4 | 57.0 | 25390 | 134.6 | 111.0 | 3969 | 231.8 |
| 4.0 | 283600 | 39.2 | 58.0 | 24410 | 136.4 | 112.0 | 3852 | 233.6 |
| 5.0 | 269000 | 41.0 | 59.0 | 23480 | 138.2 | 113.0 | 3738 | 235.4 |
| 6.0 | 255300 | 42.8 | 60.0 | 22590 | 140.0 | 114.0 | 3629 | 237.2 |
| 7.0 | 242400 | 44.6 | 61.0 | 21740 | 141.8 | 115.0 | 3523 | 239.0 |
| 8.0 | 230200 | 46.4 | 62.0 | 20920 | 143.6 | 116.0 | 3421 | 240.8 |
| 9.0 | 218700 | 48.2 | 63.0 | 20130 | 145.4 | 117.0 | 3322 | 242.6 |
| 10.0 | 207800 | 50.0 | 64.0 | 19380 | 147.2 | 118.0 | 3227 | 244.4 |
| 11.0 | 197500 | 51.8 | 65.0 | 18670 | 149.0 | 119.0 | 3134 | 246.2 |
| 12.0 | 187800 | 53.6 | 66.0 | 17980 | 150.8 | 120.0 | 3045 | 248.0 |
| 13.0 | 178600 | 55.4 | 67.0 | 17320 | 152.6 | | | |

NOTE: Temperature cycling below -25°C or above +125°C is not recommended.
Sensor tolerance is ±0.2°C in the range 0 to 70°C.