# NTC THERMISTOR R-T CHARACTERISTICS

| TYPE | TC10-2V181J [T,B] |
|---|---|

| | | | |
|---|---|---|---|
| RESISTANCE(at25℃) | 180 Ω | R-TOLERANCE(±) | 5 % |
| B-VALUE(25/50℃) | 2900 K | B-TOLERANCE(±) | 3 % |

| T(℃) | Rmin(Ω) | Rnom(Ω) | Rmax(Ω) |
|---|---|---|---|
| -40 | 2.174E+003 | 2.482E+003 | 2.827E+003 |
| -39 | 2.070E+003 | 2.360E+003 | 2.684E+003 |
| -38 | 1.973E+003 | 2.245E+003 | 2.549E+003 |
| -37 | 1.880E+003 | 2.137E+003 | 2.422E+003 |
| -36 | 1.793E+003 | 2.034E+003 | 2.302E+003 |
| -35 | 1.710E+003 | 1.937E+003 | 2.190E+003 |
| -34 | 1.632E+003 | 1.846E+003 | 2.083E+003 |
| -33 | 1.558E+003 | 1.759E+003 | 1.982E+003 |
| -32 | 1.487E+003 | 1.678E+003 | 1.887E+003 |
| -31 | 1.421E+003 | 1.600E+003 | 1.797E+003 |
| -30 | 1.358E+003 | 1.527E+003 | 1.712E+003 |
| -29 | 1.297E+003 | 1.457E+003 | 1.631E+003 |
| -28 | 1.240E+003 | 1.390E+003 | 1.555E+003 |
| -27 | 1.186E+003 | 1.328E+003 | 1.483E+003 |
| -26 | 1.135E+003 | 1.268E+003 | 1.415E+003 |
| -25 | 1.086E+003 | 1.212E+003 | 1.350E+003 |
| -24 | 1.040E+003 | 1.159E+003 | 1.289E+003 |
| -23 | 9.961E+002 | 1.109E+003 | 1.231E+003 |
| -22 | 9.545E+002 | 1.061E+003 | 1.177E+003 |
| -21 | 9.150E+002 | 1.016E+003 | 1.125E+003 |
| -20 | 8.775E+002 | 9.729E+002 | 1.076E+003 |
| -19 | 8.423E+002 | 9.326E+002 | 1.030E+003 |
| -18 | 8.087E+002 | 8.942E+002 | 9.862E+002 |
| -17 | 7.766E+002 | 8.575E+002 | 9.445E+002 |
| -16 | 7.458E+002 | 8.225E+002 | 9.047E+002 |
| -15 | 7.165E+002 | 7.891E+002 | 8.668E+002 |
| -14 | 6.884E+002 | 7.572E+002 | 8.307E+002 |
| -13 | 6.616E+002 | 7.267E+002 | 7.963E+002 |
| -12 | 6.359E+002 | 6.976E+002 | 7.634E+002 |
| -11 | 6.113E+002 | 6.698E+002 | 7.321E+002 |
| -10 | 5.878E+002 | 6.433E+002 | 7.022E+002 |
| -9 | 5.653E+002 | 6.179E+002 | 6.736E+002 |
| -8 | 5.438E+002 | 5.936E+002 | 6.464E+002 |
| -7 | 5.232E+002 | 5.705E+002 | 6.204E+002 |
| -6 | 5.035E+002 | 5.483E+002 | 5.955E+002 |
| -5 | 4.847E+002 | 5.271E+002 | 5.719E+002 |
| -4 | 4.666E+002 | 5.069E+002 | 5.492E+002 |
| -3 | 4.494E+002 | 4.875E+002 | 5.276E+002 |
| -2 | 4.328E+002 | 4.690E+002 | 5.070E+002 |
| -1 | 4.170E+002 | 4.513E+002 | 4.873E+002 |
| 0 | 4.018E+002 | 4.344E+002 | 4.685E+002 |

| T(℃) | Rmin(Ω) | Rnom(Ω) | Rmax(Ω) |
|---|---|---|---|
| 0 | 4.018E+002 | 4.344E+002 | 4.685E+002 |
| 1 | 3.873E+002 | 4.182E+002 | 4.504E+002 |
| 2 | 3.733E+002 | 4.027E+002 | 4.332E+002 |
| 3 | 3.600E+002 | 3.878E+002 | 4.168E+002 |
| 4 | 3.472E+002 | 3.736E+002 | 4.010E+002 |
| 5 | 3.349E+002 | 3.600E+002 | 3.860E+002 |
| 6 | 3.231E+002 | 3.470E+002 | 3.716E+002 |
| 7 | 3.119E+002 | 3.345E+002 | 3.579E+002 |
| 8 | 3.010E+002 | 3.225E+002 | 3.447E+002 |
| 9 | 2.907E+002 | 3.111E+002 | 3.321E+002 |
| 10 | 2.807E+002 | 3.001E+002 | 3.200E+002 |
| 11 | 2.712E+002 | 2.896E+002 | 3.085E+002 |
| 12 | 2.620E+002 | 2.795E+002 | 2.974E+002 |
| 13 | 2.532E+002 | 2.698E+002 | 2.868E+002 |
| 14 | 2.448E+002 | 2.605E+002 | 2.766E+002 |
| 15 | 2.366E+002 | 2.516E+002 | 2.669E+002 |
| 16 | 2.289E+002 | 2.431E+002 | 2.576E+002 |
| 17 | 2.214E+002 | 2.349E+002 | 2.486E+002 |
| 18 | 2.142E+002 | 2.270E+002 | 2.401E+002 |
| 19 | 2.073E+002 | 2.195E+002 | 2.319E+002 |
| 20 | 2.006E+002 | 2.122E+002 | 2.240E+002 |
| 21 | 1.942E+002 | 2.053E+002 | 2.164E+002 |
| 22 | 1.881E+002 | 1.986E+002 | 2.091E+002 |
| 23 | 1.822E+002 | 1.921E+002 | 2.021E+002 |
| 24 | 1.765E+002 | 1.860E+002 | 1.954E+002 |
| 25 | 1.710E+002 | 1.800E+002 | 1.890E+002 |
| 26 | 1.654E+002 | 1.743E+002 | 1.832E+002 |
| 27 | 1.600E+002 | 1.688E+002 | 1.775E+002 |
| 28 | 1.548E+002 | 1.635E+002 | 1.721E+002 |
| 29 | 1.499E+002 | 1.584E+002 | 1.669E+002 |
| 30 | 1.451E+002 | 1.534E+002 | 1.619E+002 |
| 31 | 1.405E+002 | 1.487E+002 | 1.570E+002 |
| 32 | 1.360E+002 | 1.441E+002 | 1.524E+002 |
| 33 | 1.318E+002 | 1.397E+002 | 1.479E+002 |
| 34 | 1.276E+002 | 1.355E+002 | 1.435E+002 |
| 35 | 1.237E+002 | 1.314E+002 | 1.393E+002 |
| 36 | 1.199E+002 | 1.275E+002 | 1.353E+002 |
| 37 | 1.162E+002 | 1.237E+002 | 1.314E+002 |
| 38 | 1.126E+002 | 1.200E+002 | 1.276E+002 |
| 39 | 1.092E+002 | 1.165E+002 | 1.239E+002 |
| 40 | 1.059E+002 | 1.131E+002 | 1.204E+002 |

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|---|---|

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| B-VALUE(25/50℃) | 2900 K | B-TOLERANCE(±) | 3 % |

| T(℃) | Rmin(Ω) | Rnom(Ω) | Rmax(Ω) |
|---|---|---|---|
| 40 | 1.059E+002 | 1.131E+002 | 1.204E+002 |
| 41 | 1.028E+002 | 1.098E+002 | 1.170E+002 |
| 42 | 9.970E+001 | 1.066E+002 | 1.137E+002 |
| 43 | 9.675E+001 | 1.035E+002 | 1.105E+002 |
| 44 | 9.390E+001 | 1.006E+002 | 1.075E+002 |
| 45 | 9.115E+001 | 9.772E+001 | 1.045E+002 |
| 46 | 8.850E+001 | 9.496E+001 | 1.016E+002 |
| 47 | 8.594E+001 | 9.229E+001 | 9.887E+001 |
| 48 | 8.346E+001 | 8.971E+001 | 9.619E+001 |
| 49 | 8.108E+001 | 8.722E+001 | 9.360E+001 |
| 50 | 7.878E+001 | 8.481E+001 | 9.109E+001 |
| 51 | 7.655E+001 | 8.249E+001 | 8.867E+001 |
| 52 | 7.441E+001 | 8.024E+001 | 8.632E+001 |
| 53 | 7.233E+001 | 7.807E+001 | 8.406E+001 |
| 54 | 7.033E+001 | 7.597E+001 | 8.186E+001 |
| 55 | 6.839E+001 | 7.394E+001 | 7.973E+001 |
| 56 | 6.652E+001 | 7.197E+001 | 7.768E+001 |
| 57 | 6.471E+001 | 7.007E+001 | 7.568E+001 |
| 58 | 6.296E+001 | 6.823E+001 | 7.375E+001 |
| 59 | 6.126E+001 | 6.644E+001 | 7.188E+001 |
| 60 | 5.963E+001 | 6.472E+001 | 7.007E+001 |
| 61 | 5.804E+001 | 6.305E+001 | 6.831E+001 |
| 62 | 5.651E+001 | 6.143E+001 | 6.661E+001 |
| 63 | 5.502E+001 | 5.986E+001 | 6.496E+001 |
| 64 | 5.358E+001 | 5.834E+001 | 6.336E+001 |
| 65 | 5.219E+001 | 5.687E+001 | 6.181E+001 |
| 66 | 5.084E+001 | 5.544E+001 | 6.030E+001 |
| 67 | 4.954E+001 | 5.406E+001 | 5.885E+001 |
| 68 | 4.828E+001 | 5.272E+001 | 5.743E+001 |
| 69 | 4.705E+001 | 5.142E+001 | 5.606E+001 |
| 70 | 4.586E+001 | 5.016E+001 | 5.472E+001 |
| 71 | 4.470E+001 | 4.893E+001 | 5.342E+001 |
| 72 | 4.358E+001 | 4.773E+001 | 5.215E+001 |
| 73 | 4.249E+001 | 4.658E+001 | 5.093E+001 |
| 74 | 4.144E+001 | 4.546E+001 | 4.974E+001 |
| 75 | 4.043E+001 | 4.438E+001 | 4.859E+001 |
| 76 | 3.944E+001 | 4.333E+001 | 4.747E+001 |
| 77 | 3.849E+001 | 4.231E+001 | 4.639E+001 |
| 78 | 3.757E+001 | 4.132E+001 | 4.534E+001 |
| 79 | 3.667E+001 | 4.037E+001 | 4.433E+001 |
| 80 | 3.581E+001 | 3.945E+001 | 4.335E+001 |

| T(℃) | Rmin(Ω) | Rnom(Ω) | Rmax(Ω) |
|---|---|---|---|
| 80 | 3.581E+001 | 3.945E+001 | 4.335E+001 |
| 81 | 3.498E+001 | 3.856E+001 | 4.240E+001 |
| 82 | 3.418E+001 | 3.771E+001 | 4.149E+001 |
| 83 | 3.340E+001 | 3.687E+001 | 4.060E+001 |
| 84 | 3.265E+001 | 3.606E+001 | 3.974E+001 |
| 85 | 3.191E+001 | 3.528E+001 | 3.890E+001 |
| 86 | 3.120E+001 | 3.451E+001 | 3.808E+001 |
| 87 | 3.051E+001 | 3.377E+001 | 3.728E+001 |
| 88 | 2.983E+001 | 3.304E+001 | 3.651E+001 |
| 89 | 2.918E+001 | 3.234E+001 | 3.576E+001 |
| 90 | 2.854E+001 | 3.166E+001 | 3.502E+001 |
| 91 | 2.793E+001 | 3.099E+001 | 3.431E+001 |
| 92 | 2.733E+001 | 3.035E+001 | 3.362E+001 |
| 93 | 2.674E+001 | 2.972E+001 | 3.294E+001 |
| 94 | 2.618E+001 | 2.911E+001 | 3.229E+001 |
| 95 | 2.562E+001 | 2.851E+001 | 3.165E+001 |
| 96 | 2.509E+001 | 2.793E+001 | 3.102E+001 |
| 97 | 2.456E+001 | 2.737E+001 | 3.041E+001 |
| 98 | 2.405E+001 | 2.682E+001 | 2.982E+001 |
| 99 | 2.356E+001 | 2.628E+001 | 2.924E+001 |
| 100 | 2.308E+001 | 2.576E+001 | 2.868E+001 |
| 101 | 2.261E+001 | 2.525E+001 | 2.813E+001 |
| 102 | 2.215E+001 | 2.475E+001 | 2.759E+001 |
| 103 | 2.170E+001 | 2.427E+001 | 2.707E+001 |
| 104 | 2.127E+001 | 2.380E+001 | 2.656E+001 |
| 105 | 2.084E+001 | 2.334E+001 | 2.607E+001 |
| 106 | 2.043E+001 | 2.289E+001 | 2.558E+001 |
| 107 | 2.003E+001 | 2.246E+001 | 2.511E+001 |
| 108 | 1.964E+001 | 2.203E+001 | 2.465E+001 |
| 109 | 1.926E+001 | 2.161E+001 | 2.420E+001 |
| 110 | 1.889E+001 | 2.121E+001 | 2.376E+001 |
| 111 | 1.852E+001 | 2.082E+001 | 2.333E+001 |
| 112 | 1.817E+001 | 2.043E+001 | 2.291E+001 |
| 113 | 1.783E+001 | 2.006E+001 | 2.251E+001 |
| 114 | 1.749E+001 | 1.969E+001 | 2.211E+001 |
| 115 | 1.716E+001 | 1.933E+001 | 2.172E+001 |
| 116 | 1.684E+001 | 1.898E+001 | 2.134E+001 |
| 117 | 1.653E+001 | 1.864E+001 | 2.097E+001 |
| 118 | 1.623E+001 | 1.831E+001 | 2.061E+001 |
| 119 | 1.593E+001 | 1.799E+001 | 2.025E+001 |
| 120 | 1.564E+001 | 1.767E+001 | 1.991E+001 |
| 121 | 1.536E+001 | 1.736E+001 | 1.957E+001 |
| 122 | 1.508E+001 | 1.706E+001 | 1.924E+001 |
| 123 | 1.482E+001 | 1.676E+001 | 1.892E+001 |
| 124 | 1.455E+001 | 1.647E+001 | 1.860E+001 |
| 125 | 1.430E+001 | 1.619E+001 | 1.829E+001 |