# NTC THERMISTOR R-T CHARACTERISTICS

| TYPE | TH05-3T103F[R,B] |
|---|---|

| | | | |
|---|---|---|---|
| RESISTANCE(at25℃) | 10000 Ω | R-TOLERANCE(±) | 1 % |
| B-VALUE(25/50℃) | 3820 K | B-TOLERANCE(±) | 1 % |

| T(℃) | Rmin(Ω) | Rnom(Ω) | Rmax(Ω) |
|---|---|---|---|
| -40 | 3.368E+005 | 3.526E+005 | 3.690E+005 |
| -39 | 3.146E+005 | 3.291E+005 | 3.442E+005 |
| -38 | 2.940E+005 | 3.073E+005 | 3.212E+005 |
| -37 | 2.749E+005 | 2.871E+005 | 2.999E+005 |
| -36 | 2.571E+005 | 2.684E+005 | 2.802E+005 |
| -35 | 2.407E+005 | 2.511E+005 | 2.619E+005 |
| -34 | 2.254E+005 | 2.350E+005 | 2.449E+005 |
| -33 | 2.112E+005 | 2.200E+005 | 2.292E+005 |
| -32 | 1.979E+005 | 2.061E+005 | 2.146E+005 |
| -31 | 1.856E+005 | 1.932E+005 | 2.010E+005 |
| -30 | 1.742E+005 | 1.811E+005 | 1.883E+005 |
| -29 | 1.635E+005 | 1.699E+005 | 1.765E+005 |
| -28 | 1.536E+005 | 1.595E+005 | 1.656E+005 |
| -27 | 1.443E+005 | 1.497E+005 | 1.554E+005 |
| -26 | 1.356E+005 | 1.407E+005 | 1.459E+005 |
| -25 | 1.276E+005 | 1.322E+005 | 1.370E+005 |
| -24 | 1.200E+005 | 1.244E+005 | 1.288E+005 |
| -23 | 1.130E+005 | 1.170E+005 | 1.211E+005 |
| -22 | 1.064E+005 | 1.101E+005 | 1.139E+005 |
| -21 | 1.003E+005 | 1.037E+005 | 1.072E+005 |
| -20 | 9.454E+004 | 9.770E+004 | 1.009E+005 |
| -19 | 8.916E+004 | 9.208E+004 | 9.509E+004 |
| -18 | 8.412E+004 | 8.683E+004 | 8.961E+004 |
| -17 | 7.941E+004 | 8.191E+004 | 8.449E+004 |
| -16 | 7.499E+004 | 7.731E+004 | 7.969E+004 |
| -15 | 7.084E+004 | 7.299E+004 | 7.520E+004 |
| -14 | 6.696E+004 | 6.895E+004 | 7.100E+004 |
| -13 | 6.331E+004 | 6.516E+004 | 6.706E+004 |
| -12 | 5.989E+004 | 6.161E+004 | 6.336E+004 |
| -11 | 5.668E+004 | 5.827E+004 | 5.990E+004 |
| -10 | 5.366E+004 | 5.514E+004 | 5.664E+004 |
| -9 | 5.083E+004 | 5.220E+004 | 5.360E+004 |
| -8 | 4.816E+004 | 4.943E+004 | 5.073E+004 |
| -7 | 4.566E+004 | 4.683E+004 | 4.804E+004 |
| -6 | 4.330E+004 | 4.439E+004 | 4.550E+004 |
| -5 | 4.107E+004 | 4.209E+004 | 4.312E+004 |
| -4 | 3.898E+004 | 3.992E+004 | 4.088E+004 |
| -3 | 3.700E+004 | 3.788E+004 | 3.877E+004 |
| -2 | 3.514E+004 | 3.595E+004 | 3.678E+004 |
| -1 | 3.338E+004 | 3.414E+004 | 3.490E+004 |
| 0 | 3.173E+004 | 3.242E+004 | 3.314E+004 |

| T(℃) | Rmin(Ω) | Rnom(Ω) | Rmax(Ω) |
|---|---|---|---|
| 0 | 3.173E+004 | 3.242E+004 | 3.314E+004 |
| 1 | 3.016E+004 | 3.081E+004 | 3.147E+004 |
| 2 | 2.868E+004 | 2.929E+004 | 2.990E+004 |
| 3 | 2.729E+004 | 2.785E+004 | 2.841E+004 |
| 4 | 2.597E+004 | 2.649E+004 | 2.702E+004 |
| 5 | 2.472E+004 | 2.521E+004 | 2.569E+004 |
| 6 | 2.355E+004 | 2.399E+004 | 2.444E+004 |
| 7 | 2.243E+004 | 2.285E+004 | 2.326E+004 |
| 8 | 2.138E+004 | 2.176E+004 | 2.215E+004 |
| 9 | 2.038E+004 | 2.073E+004 | 2.109E+004 |
| 10 | 1.943E+004 | 1.976E+004 | 2.010E+004 |
| 11 | 1.854E+004 | 1.884E+004 | 1.915E+004 |
| 12 | 1.769E+004 | 1.797E+004 | 1.826E+004 |
| 13 | 1.688E+004 | 1.715E+004 | 1.741E+004 |
| 14 | 1.612E+004 | 1.637E+004 | 1.661E+004 |
| 15 | 1.540E+004 | 1.562E+004 | 1.585E+004 |
| 16 | 1.471E+004 | 1.492E+004 | 1.513E+004 |
| 17 | 1.406E+004 | 1.425E+004 | 1.445E+004 |
| 18 | 1.344E+004 | 1.362E+004 | 1.380E+004 |
| 19 | 1.286E+004 | 1.302E+004 | 1.319E+004 |
| 20 | 1.230E+004 | 1.245E+004 | 1.260E+004 |
| 21 | 1.177E+004 | 1.191E+004 | 1.205E+004 |
| 22 | 1.127E+004 | 1.140E+004 | 1.152E+004 |
| 23 | 1.079E+004 | 1.091E+004 | 1.103E+004 |
| 24 | 1.033E+004 | 1.044E+004 | 1.055E+004 |
| 25 | 9.900E+003 | 1.000E+004 | 1.010E+004 |
| 26 | 9.480E+003 | 9.579E+003 | 9.679E+003 |
| 27 | 9.080E+003 | 9.179E+003 | 9.279E+003 |
| 28 | 8.699E+003 | 8.798E+003 | 8.898E+003 |
| 29 | 8.337E+003 | 8.436E+003 | 8.534E+003 |
| 30 | 7.992E+003 | 8.090E+003 | 8.188E+003 |
| 31 | 7.664E+003 | 7.761E+003 | 7.858E+003 |
| 32 | 7.351E+003 | 7.447E+003 | 7.544E+003 |
| 33 | 7.053E+003 | 7.148E+003 | 7.244E+003 |
| 34 | 6.769E+003 | 6.863E+003 | 6.958E+003 |
| 35 | 6.498E+003 | 6.591E+003 | 6.685E+003 |
| 36 | 6.240E+003 | 6.331E+003 | 6.424E+003 |
| 37 | 5.993E+003 | 6.084E+003 | 6.175E+003 |
| 38 | 5.758E+003 | 5.848E+003 | 5.938E+003 |
| 39 | 5.534E+003 | 5.622E+003 | 5.711E+003 |
| 40 | 5.320E+003 | 5.406E+003 | 5.494E+003 |

# NTC THERMISTOR R-T CHARACTERISTICS

| TYPE | TH05-3T103F[R,B] |
|---|---|

| | | | |
|---|---|---|---|
| RESISTANCE(at25℃) | 10000 Ω | R-TOLERANCE(±) | 1 % |
| B-VALUE(25/50℃) | 3820 K | B-TOLERANCE(±) | 1 % |

| T(℃) | Rmin(Ω) | Rnom(Ω) | Rmax(Ω) |
|---|---|---|---|
| 40 | 5.320E+003 | 5.406E+003 | 5.494E+003 |
| 41 | 5.115E+003 | 5.201E+003 | 5.287E+003 |
| 42 | 4.920E+003 | 5.004E+003 | 5.089E+003 |
| 43 | 4.733E+003 | 4.816E+003 | 4.900E+003 |
| 44 | 4.555E+003 | 4.637E+003 | 4.719E+003 |
| 45 | 4.385E+003 | 4.465E+003 | 4.546E+003 |
| 46 | 4.222E+003 | 4.301E+003 | 4.380E+003 |
| 47 | 4.066E+003 | 4.144E+003 | 4.222E+003 |
| 48 | 3.917E+003 | 3.993E+003 | 4.070E+003 |
| 49 | 3.774E+003 | 3.849E+003 | 3.925E+003 |
| 50 | 3.638E+003 | 3.711E+003 | 3.786E+003 |
| 51 | 3.507E+003 | 3.579E+003 | 3.653E+003 |
| 52 | 3.382E+003 | 3.453E+003 | 3.525E+003 |
| 53 | 3.263E+003 | 3.332E+003 | 3.403E+003 |
| 54 | 3.148E+003 | 3.216E+003 | 3.285E+003 |
| 55 | 3.038E+003 | 3.105E+003 | 3.173E+003 |
| 56 | 2.932E+003 | 2.998E+003 | 3.065E+003 |
| 57 | 2.831E+003 | 2.895E+003 | 2.961E+003 |
| 58 | 2.734E+003 | 2.797E+003 | 2.861E+003 |
| 59 | 2.641E+003 | 2.703E+003 | 2.766E+003 |
| 60 | 2.551E+003 | 2.612E+003 | 2.674E+003 |
| 61 | 2.465E+003 | 2.525E+003 | 2.585E+003 |
| 62 | 2.382E+003 | 2.441E+003 | 2.500E+003 |
| 63 | 2.303E+003 | 2.360E+003 | 2.419E+003 |
| 64 | 2.227E+003 | 2.283E+003 | 2.340E+003 |
| 65 | 2.154E+003 | 2.209E+003 | 2.265E+003 |
| 66 | 2.083E+003 | 2.137E+003 | 2.192E+003 |
| 67 | 2.016E+003 | 2.068E+003 | 2.122E+003 |
| 68 | 1.950E+003 | 2.002E+003 | 2.055E+003 |
| 69 | 1.888E+003 | 1.939E+003 | 1.991E+003 |
| 70 | 1.828E+003 | 1.877E+003 | 1.928E+003 |
| 71 | 1.770E+003 | 1.818E+003 | 1.868E+003 |
| 72 | 1.714E+003 | 1.762E+003 | 1.811E+003 |
| 73 | 1.660E+003 | 1.707E+003 | 1.755E+003 |
| 74 | 1.609E+003 | 1.654E+003 | 1.701E+003 |
| 75 | 1.559E+003 | 1.604E+003 | 1.650E+003 |
| 76 | 1.511E+003 | 1.555E+003 | 1.600E+003 |
| 77 | 1.465E+003 | 1.508E+003 | 1.552E+003 |
| 78 | 1.420E+003 | 1.463E+003 | 1.506E+003 |
| 79 | 1.377E+003 | 1.419E+003 | 1.461E+003 |
| 80 | 1.336E+003 | 1.377E+003 | 1.419E+003 |

| T(℃) | Rmin(Ω) | Rnom(Ω) | Rmax(Ω) |
|---|---|---|---|
| 80 | 1.336E+003 | 1.377E+003 | 1.419E+003 |
| 81 | 1.296E+003 | 1.336E+003 | 1.377E+003 |
| 82 | 1.258E+003 | 1.297E+003 | 1.337E+003 |
| 83 | 1.221E+003 | 1.259E+003 | 1.299E+003 |
| 84 | 1.185E+003 | 1.223E+003 | 1.262E+003 |
| 85 | 1.151E+003 | 1.188E+003 | 1.226E+003 |
| 86 | 1.118E+003 | 1.154E+003 | 1.191E+003 |
| 87 | 1.085E+003 | 1.121E+003 | 1.157E+003 |
| 88 | 1.054E+003 | 1.089E+003 | 1.125E+003 |
| 89 | 1.025E+003 | 1.059E+003 | 1.094E+003 |
| 90 | 9.955E+002 | 1.029E+003 | 1.063E+003 |
| 91 | 9.674E+002 | 1.000E+003 | 1.034E+003 |
| 92 | 9.403E+002 | 9.724E+002 | 1.005E+003 |
| 93 | 9.141E+002 | 9.455E+002 | 9.780E+002 |
| 94 | 8.887E+002 | 9.196E+002 | 9.514E+002 |
| 95 | 8.643E+002 | 8.945E+002 | 9.257E+002 |
| 96 | 8.406E+002 | 8.703E+002 | 9.009E+002 |
| 97 | 8.178E+002 | 8.469E+002 | 8.769E+002 |
| 98 | 7.957E+002 | 8.242E+002 | 8.537E+002 |
| 99 | 7.743E+002 | 8.023E+002 | 8.313E+002 |
| 100 | 7.537E+002 | 7.812E+002 | 8.096E+002 |
| 101 | 7.338E+002 | 7.608E+002 | 7.886E+002 |
| 102 | 7.145E+002 | 7.410E+002 | 7.683E+002 |
| 103 | 6.959E+002 | 7.219E+002 | 7.487E+002 |
| 104 | 6.779E+002 | 7.033E+002 | 7.297E+002 |
| 105 | 6.604E+002 | 6.854E+002 | 7.112E+002 |
| 106 | 6.434E+002 | 6.680E+002 | 6.934E+002 |
| 107 | 6.270E+002 | 6.511E+002 | 6.761E+002 |
| 108 | 6.112E+002 | 6.348E+002 | 6.593E+002 |
| 109 | 5.958E+002 | 6.190E+002 | 6.430E+002 |
| 110 | 5.808E+002 | 6.036E+002 | 6.272E+002 |
| 111 | 5.664E+002 | 5.888E+002 | 6.120E+002 |
| 112 | 5.524E+002 | 5.744E+002 | 5.972E+002 |
| 113 | 5.388E+002 | 5.604E+002 | 5.828E+002 |
| 114 | 5.257E+002 | 5.468E+002 | 5.688E+002 |
| 115 | 5.129E+002 | 5.337E+002 | 5.553E+002 |
| 116 | 5.005E+002 | 5.209E+002 | 5.421E+002 |
| 117 | 4.884E+002 | 5.085E+002 | 5.293E+002 |
| 118 | 4.767E+002 | 4.964E+002 | 5.169E+002 |
| 119 | 4.653E+002 | 4.847E+002 | 5.048E+002 |
| 120 | 4.543E+002 | 4.733E+002 | 4.931E+002 |
| 121 | 4.436E+002 | 4.623E+002 | 4.817E+002 |
| 122 | 4.332E+002 | 4.515E+002 | 4.706E+002 |
| 123 | 4.230E+002 | 4.411E+002 | 4.598E+002 |
| 124 | 4.132E+002 | 4.309E+002 | 4.493E+002 |
| 125 | 4.036E+002 | 4.210E+002 | 4.391E+002 |