# NTC THERMISTOR R-T CHARACTERISTICS

| TYPE | TC05-4C272J [R,B] |
|---|---|

| | | | |
|---|---|---|---|
| RESISTANCE(at25℃) | 2700 Ω | R-TOLERANCE(±) | 5 % |
| B-VALUE(25/50℃) | 4100 K | B-TOLERANCE(±) | 3 % |

| T(℃) | Rmin(Ω) | Rnom(Ω) | Rmax(Ω) |
|---|---|---|---|
| -40 | 1.108E+005 | 1.308E+005 | 1.541E+005 |
| -39 | 1.030E+005 | 1.214E+005 | 1.427E+005 |
| -38 | 9.587E+004 | 1.127E+005 | 1.322E+005 |
| -37 | 8.926E+004 | 1.047E+005 | 1.225E+005 |
| -36 | 8.314E+004 | 9.731E+004 | 1.136E+005 |
| -35 | 7.748E+004 | 9.049E+004 | 1.054E+005 |
| -34 | 7.224E+004 | 8.419E+004 | 9.787E+004 |
| -33 | 6.739E+004 | 7.837E+004 | 9.090E+004 |
| -32 | 6.289E+004 | 7.298E+004 | 8.448E+004 |
| -31 | 5.872E+004 | 6.800E+004 | 7.855E+004 |
| -30 | 5.486E+004 | 6.339E+004 | 7.307E+004 |
| -29 | 5.126E+004 | 5.911E+004 | 6.799E+004 |
| -28 | 4.792E+004 | 5.514E+004 | 6.330E+004 |
| -27 | 4.482E+004 | 5.147E+004 | 5.897E+004 |
| -26 | 4.195E+004 | 4.808E+004 | 5.497E+004 |
| -25 | 3.928E+004 | 4.493E+004 | 5.126E+004 |
| -24 | 3.679E+004 | 4.200E+004 | 4.783E+004 |
| -23 | 3.449E+004 | 3.929E+004 | 4.466E+004 |
| -22 | 3.234E+004 | 3.678E+004 | 4.172E+004 |
| -21 | 3.035E+004 | 3.444E+004 | 3.899E+004 |
| -20 | 2.849E+004 | 3.227E+004 | 3.646E+004 |
| -19 | 2.676E+004 | 3.025E+004 | 3.411E+004 |
| -18 | 2.514E+004 | 2.837E+004 | 3.193E+004 |
| -17 | 2.364E+004 | 2.662E+004 | 2.991E+004 |
| -16 | 2.223E+004 | 2.499E+004 | 2.803E+004 |
| -15 | 2.092E+004 | 2.347E+004 | 2.627E+004 |
| -14 | 1.969E+004 | 2.206E+004 | 2.464E+004 |
| -13 | 1.855E+004 | 2.074E+004 | 2.313E+004 |
| -12 | 1.748E+004 | 1.950E+004 | 2.171E+004 |
| -11 | 1.648E+004 | 1.835E+004 | 2.039E+004 |
| -10 | 1.554E+004 | 1.728E+004 | 1.917E+004 |
| -9 | 1.466E+004 | 1.628E+004 | 1.802E+004 |
| -8 | 1.384E+004 | 1.534E+004 | 1.695E+004 |
| -7 | 1.307E+004 | 1.446E+004 | 1.595E+004 |
| -6 | 1.235E+004 | 1.364E+004 | 1.502E+004 |
| -5 | 1.167E+004 | 1.287E+004 | 1.415E+004 |
| -4 | 1.103E+004 | 1.214E+004 | 1.333E+004 |
| -3 | 1.044E+004 | 1.147E+004 | 1.257E+004 |
| -2 | 9.877E+003 | 1.083E+004 | 1.185E+004 |
| -1 | 9.350E+003 | 1.024E+004 | 1.118E+004 |
| 0 | 8.854E+003 | 9.679E+003 | 1.055E+004 |

| T(℃) | Rmin(Ω) | Rnom(Ω) | Rmax(Ω) |
|---|---|---|---|
| 0 | 8.854E+003 | 9.679E+003 | 1.055E+004 |
| 1 | 8.388E+003 | 9.155E+003 | 9.966E+003 |
| 2 | 7.950E+003 | 8.662E+003 | 9.414E+003 |
| 3 | 7.538E+003 | 8.199E+003 | 8.897E+003 |
| 4 | 7.149E+003 | 7.764E+003 | 8.412E+003 |
| 5 | 6.783E+003 | 7.355E+003 | 7.956E+003 |
| 6 | 6.439E+003 | 6.971E+003 | 7.528E+003 |
| 7 | 6.114E+003 | 6.609E+003 | 7.126E+003 |
| 8 | 5.808E+003 | 6.268E+003 | 6.748E+003 |
| 9 | 5.519E+003 | 5.947E+003 | 6.393E+003 |
| 10 | 5.247E+003 | 5.645E+003 | 6.058E+003 |
| 11 | 4.990E+003 | 5.360E+003 | 5.744E+003 |
| 12 | 4.747E+003 | 5.091E+003 | 5.447E+003 |
| 13 | 4.517E+003 | 4.838E+003 | 5.169E+003 |
| 14 | 4.301E+003 | 4.599E+003 | 4.906E+003 |
| 15 | 4.096E+003 | 4.374E+003 | 4.659E+003 |
| 16 | 3.903E+003 | 4.161E+003 | 4.426E+003 |
| 17 | 3.720E+003 | 3.960E+003 | 4.206E+003 |
| 18 | 3.546E+003 | 3.770E+003 | 3.998E+003 |
| 19 | 3.382E+003 | 3.591E+003 | 3.802E+003 |
| 20 | 3.227E+003 | 3.421E+003 | 3.618E+003 |
| 21 | 3.080E+003 | 3.261E+003 | 3.443E+003 |
| 22 | 2.941E+003 | 3.109E+003 | 3.278E+003 |
| 23 | 2.809E+003 | 2.965E+003 | 3.122E+003 |
| 24 | 2.684E+003 | 2.829E+003 | 2.975E+003 |
| 25 | 2.565E+003 | 2.700E+003 | 2.835E+003 |
| 26 | 2.446E+003 | 2.578E+003 | 2.710E+003 |
| 27 | 2.332E+003 | 2.462E+003 | 2.592E+003 |
| 28 | 2.225E+003 | 2.352E+003 | 2.480E+003 |
| 29 | 2.124E+003 | 2.248E+003 | 2.373E+003 |
| 30 | 2.028E+003 | 2.149E+003 | 2.272E+003 |
| 31 | 1.936E+003 | 2.055E+003 | 2.175E+003 |
| 32 | 1.850E+003 | 1.966E+003 | 2.084E+003 |
| 33 | 1.768E+003 | 1.881E+003 | 1.997E+003 |
| 34 | 1.690E+003 | 1.801E+003 | 1.914E+003 |
| 35 | 1.616E+003 | 1.724E+003 | 1.835E+003 |
| 36 | 1.546E+003 | 1.651E+003 | 1.760E+003 |
| 37 | 1.479E+003 | 1.582E+003 | 1.688E+003 |
| 38 | 1.416E+003 | 1.516E+003 | 1.620E+003 |
| 39 | 1.356E+003 | 1.454E+003 | 1.555E+003 |
| 40 | 1.299E+003 | 1.394E+003 | 1.493E+003 |

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|---|---|

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| B-VALUE(25/50℃) | 4100 K | B-TOLERANCE(±) | 3 % |

| T(℃) | Rmin(Ω) | Rnom(Ω) | Rmax(Ω) |
|---|---|---|---|
| 40 | 1.299E+003 | 1.394E+003 | 1.493E+003 |
| 41 | 1.244E+003 | 1.337E+003 | 1.434E+003 |
| 42 | 1.192E+003 | 1.283E+003 | 1.378E+003 |
| 43 | 1.143E+003 | 1.232E+003 | 1.324E+003 |
| 44 | 1.096E+003 | 1.183E+003 | 1.273E+003 |
| 45 | 1.051E+003 | 1.136E+003 | 1.224E+003 |
| 46 | 1.009E+003 | 1.091E+003 | 1.177E+003 |
| 47 | 9.681E+002 | 1.048E+003 | 1.132E+003 |
| 48 | 9.294E+002 | 1.008E+003 | 1.090E+003 |
| 49 | 8.926E+002 | 9.689E+002 | 1.049E+003 |
| 50 | 8.574E+002 | 9.318E+002 | 1.010E+003 |
| 51 | 8.239E+002 | 8.965E+002 | 9.730E+002 |
| 52 | 7.920E+002 | 8.627E+002 | 9.374E+002 |
| 53 | 7.615E+002 | 8.305E+002 | 9.034E+002 |
| 54 | 7.323E+002 | 7.996E+002 | 8.709E+002 |
| 55 | 7.045E+002 | 7.701E+002 | 8.397E+002 |
| 56 | 6.779E+002 | 7.419E+002 | 8.098E+002 |
| 57 | 6.525E+002 | 7.149E+002 | 7.812E+002 |
| 58 | 6.282E+002 | 6.890E+002 | 7.538E+002 |
| 59 | 6.049E+002 | 6.642E+002 | 7.275E+002 |
| 60 | 5.827E+002 | 6.405E+002 | 7.023E+002 |
| 61 | 5.614E+002 | 6.178E+002 | 6.782E+002 |
| 62 | 5.410E+002 | 5.961E+002 | 6.550E+002 |
| 63 | 5.215E+002 | 5.752E+002 | 6.328E+002 |
| 64 | 5.029E+002 | 5.552E+002 | 6.114E+002 |
| 65 | 4.850E+002 | 5.360E+002 | 5.910E+002 |
| 66 | 4.678E+002 | 5.176E+002 | 5.713E+002 |
| 67 | 4.514E+002 | 5.000E+002 | 5.524E+002 |
| 68 | 4.356E+002 | 4.830E+002 | 5.342E+002 |
| 69 | 4.205E+002 | 4.667E+002 | 5.168E+002 |
| 70 | 4.060E+002 | 4.511E+002 | 5.000E+002 |
| 71 | 3.921E+002 | 4.361E+002 | 4.839E+002 |
| 72 | 3.787E+002 | 4.217E+002 | 4.683E+002 |
| 73 | 3.659E+002 | 4.078E+002 | 4.534E+002 |
| 74 | 3.536E+002 | 3.945E+002 | 4.390E+002 |
| 75 | 3.417E+002 | 3.817E+002 | 4.252E+002 |
| 76 | 3.304E+002 | 3.694E+002 | 4.119E+002 |
| 77 | 3.195E+002 | 3.575E+002 | 3.991E+002 |
| 78 | 3.090E+002 | 3.462E+002 | 3.868E+002 |
| 79 | 2.989E+002 | 3.352E+002 | 3.750E+002 |
| 80 | 2.893E+002 | 3.247E+002 | 3.635E+002 |

| T(℃) | Rmin(Ω) | Rnom(Ω) | Rmax(Ω) |
|---|---|---|---|
| 80 | 2.893E+002 | 3.247E+002 | 3.635E+002 |
| 81 | 2.800E+002 | 3.146E+002 | 3.526E+002 |
| 82 | 2.711E+002 | 3.048E+002 | 3.420E+002 |
| 83 | 2.625E+002 | 2.955E+002 | 3.318E+002 |
| 84 | 2.542E+002 | 2.864E+002 | 3.220E+002 |
| 85 | 2.462E+002 | 2.777E+002 | 3.125E+002 |
| 86 | 2.386E+002 | 2.693E+002 | 3.033E+002 |
| 87 | 2.312E+002 | 2.613E+002 | 2.945E+002 |
| 88 | 2.241E+002 | 2.535E+002 | 2.860E+002 |
| 89 | 2.172E+002 | 2.459E+002 | 2.778E+002 |
| 90 | 2.106E+002 | 2.387E+002 | 2.698E+002 |
| 91 | 2.042E+002 | 2.316E+002 | 2.621E+002 |
| 92 | 1.980E+002 | 2.248E+002 | 2.546E+002 |
| 93 | 1.921E+002 | 2.183E+002 | 2.474E+002 |
| 94 | 1.863E+002 | 2.119E+002 | 2.405E+002 |
| 95 | 1.808E+002 | 2.058E+002 | 2.338E+002 |
| 96 | 1.755E+002 | 2.000E+002 | 2.273E+002 |
| 97 | 1.703E+002 | 1.943E+002 | 2.211E+002 |
| 98 | 1.654E+002 | 1.888E+002 | 2.150E+002 |
| 99 | 1.606E+002 | 1.835E+002 | 2.092E+002 |
| 100 | 1.560E+002 | 1.784E+002 | 2.036E+002 |
| 101 | 1.516E+002 | 1.736E+002 | 1.982E+002 |
| 102 | 1.474E+002 | 1.688E+002 | 1.929E+002 |
| 103 | 1.433E+002 | 1.643E+002 | 1.879E+002 |
| 104 | 1.393E+002 | 1.598E+002 | 1.830E+002 |
| 105 | 1.354E+002 | 1.556E+002 | 1.782E+002 |
| 106 | 1.317E+002 | 1.514E+002 | 1.736E+002 |
| 107 | 1.281E+002 | 1.474E+002 | 1.692E+002 |
| 108 | 1.246E+002 | 1.435E+002 | 1.649E+002 |
| 109 | 1.213E+002 | 1.398E+002 | 1.607E+002 |
| 110 | 1.180E+002 | 1.361E+002 | 1.566E+002 |
| 111 | 1.148E+002 | 1.326E+002 | 1.527E+002 |
| 112 | 1.118E+002 | 1.291E+002 | 1.488E+002 |
| 113 | 1.088E+002 | 1.258E+002 | 1.451E+002 |
| 114 | 1.059E+002 | 1.226E+002 | 1.415E+002 |
| 115 | 1.032E+002 | 1.195E+002 | 1.381E+002 |
| 116 | 1.005E+002 | 1.165E+002 | 1.347E+002 |
| 117 | 9.787E+001 | 1.135E+002 | 1.314E+002 |
| 118 | 9.535E+001 | 1.107E+002 | 1.282E+002 |
| 119 | 9.290E+001 | 1.080E+002 | 1.251E+002 |
| 120 | 9.054E+001 | 1.053E+002 | 1.221E+002 |
| 121 | 8.825E+001 | 1.027E+002 | 1.192E+002 |
| 122 | 8.602E+001 | 1.002E+002 | 1.164E+002 |
| 123 | 8.387E+001 | 9.777E+001 | 1.137E+002 |
| 124 | 8.178E+001 | 9.541E+001 | 1.110E+002 |
| 125 | 7.976E+001 | 9.312E+001 | 1.085E+002 |