# NTC THERMISTOR R-T CHARACTERISTICS

| TYPE | TC20-2S400J [T,B] |
|---|---|

| | | | |
|---|---|---|---|
| RESISTANCE(at25℃) | 40 Ω | R-TOLERANCE(±) | 5 % |
| B-VALUE(25/50℃) | 2750 K | B-TOLERANCE(±) | 3 % |

| T(℃) | Rmin(Ω) | Rnom(Ω) | Rmax(Ω) |
|---|---|---|---|
| -40 | 4.122E+002 | 4.687E+002 | 5.316E+002 |
| -39 | 3.942E+002 | 4.476E+002 | 5.069E+002 |
| -38 | 3.772E+002 | 4.276E+002 | 4.835E+002 |
| -37 | 3.610E+002 | 4.086E+002 | 4.614E+002 |
| -36 | 3.456E+002 | 3.906E+002 | 4.404E+002 |
| -35 | 3.309E+002 | 3.735E+002 | 4.205E+002 |
| -34 | 3.170E+002 | 3.573E+002 | 4.016E+002 |
| -33 | 3.038E+002 | 3.418E+002 | 3.837E+002 |
| -32 | 2.912E+002 | 3.272E+002 | 3.668E+002 |
| -31 | 2.792E+002 | 3.133E+002 | 3.507E+002 |
| -30 | 2.677E+002 | 3.000E+002 | 3.354E+002 |
| -29 | 2.570E+002 | 2.876E+002 | 3.210E+002 |
| -28 | 2.467E+002 | 2.757E+002 | 3.073E+002 |
| -27 | 2.368E+002 | 2.643E+002 | 2.942E+002 |
| -26 | 2.274E+002 | 2.535E+002 | 2.818E+002 |
| -25 | 2.184E+002 | 2.431E+002 | 2.699E+002 |
| -24 | 2.098E+002 | 2.332E+002 | 2.586E+002 |
| -23 | 2.016E+002 | 2.238E+002 | 2.478E+002 |
| -22 | 1.937E+002 | 2.148E+002 | 2.375E+002 |
| -21 | 1.862E+002 | 2.062E+002 | 2.277E+002 |
| -20 | 1.790E+002 | 1.979E+002 | 2.183E+002 |
| -19 | 1.721E+002 | 1.900E+002 | 2.093E+002 |
| -18 | 1.655E+002 | 1.825E+002 | 2.008E+002 |
| -17 | 1.591E+002 | 1.753E+002 | 1.926E+002 |
| -16 | 1.531E+002 | 1.684E+002 | 1.848E+002 |
| -15 | 1.473E+002 | 1.619E+002 | 1.774E+002 |
| -14 | 1.418E+002 | 1.556E+002 | 1.703E+002 |
| -13 | 1.365E+002 | 1.496E+002 | 1.636E+002 |
| -12 | 1.315E+002 | 1.439E+002 | 1.571E+002 |
| -11 | 1.266E+002 | 1.384E+002 | 1.510E+002 |
| -10 | 1.220E+002 | 1.332E+002 | 1.451E+002 |
| -9 | 1.175E+002 | 1.282E+002 | 1.395E+002 |
| -8 | 1.133E+002 | 1.234E+002 | 1.342E+002 |
| -7 | 1.092E+002 | 1.189E+002 | 1.290E+002 |
| -6 | 1.053E+002 | 1.145E+002 | 1.241E+002 |
| -5 | 1.016E+002 | 1.103E+002 | 1.195E+002 |
| -4 | 9.801E+001 | 1.063E+002 | 1.150E+002 |
| -3 | 9.458E+001 | 1.025E+002 | 1.107E+002 |
| -2 | 9.129E+001 | 9.878E+001 | 1.066E+002 |
| -1 | 8.813E+001 | 9.526E+001 | 1.027E+002 |
| 0 | 8.510E+001 | 9.188E+001 | 9.895E+001 |

| T(℃) | Rmin(Ω) | Rnom(Ω) | Rmax(Ω) |
|---|---|---|---|
| 0 | 8.510E+001 | 9.188E+001 | 9.895E+001 |
| 1 | 8.219E+001 | 8.864E+001 | 9.535E+001 |
| 2 | 7.940E+001 | 8.554E+001 | 9.191E+001 |
| 3 | 7.672E+001 | 8.256E+001 | 8.862E+001 |
| 4 | 7.415E+001 | 7.970E+001 | 8.546E+001 |
| 5 | 7.168E+001 | 7.697E+001 | 8.244E+001 |
| 6 | 6.931E+001 | 7.434E+001 | 7.954E+001 |
| 7 | 6.703E+001 | 7.182E+001 | 7.676E+001 |
| 8 | 6.484E+001 | 6.940E+001 | 7.410E+001 |
| 9 | 6.273E+001 | 6.708E+001 | 7.154E+001 |
| 10 | 6.071E+001 | 6.484E+001 | 6.909E+001 |
| 11 | 5.876E+001 | 6.270E+001 | 6.674E+001 |
| 12 | 5.689E+001 | 6.064E+001 | 6.448E+001 |
| 13 | 5.509E+001 | 5.866E+001 | 6.232E+001 |
| 14 | 5.335E+001 | 5.676E+001 | 6.023E+001 |
| 15 | 5.169E+001 | 5.493E+001 | 5.823E+001 |
| 16 | 5.008E+001 | 5.317E+001 | 5.631E+001 |
| 17 | 4.853E+001 | 5.147E+001 | 5.446E+001 |
| 18 | 4.704E+001 | 4.984E+001 | 5.268E+001 |
| 19 | 4.560E+001 | 4.827E+001 | 5.098E+001 |
| 20 | 4.421E+001 | 4.676E+001 | 4.933E+001 |
| 21 | 4.288E+001 | 4.531E+001 | 4.775E+001 |
| 22 | 4.159E+001 | 4.390E+001 | 4.623E+001 |
| 23 | 4.035E+001 | 4.255E+001 | 4.476E+001 |
| 24 | 3.915E+001 | 4.125E+001 | 4.336E+001 |
| 25 | 3.800E+001 | 4.000E+001 | 4.200E+001 |
| 26 | 3.682E+001 | 3.879E+001 | 4.077E+001 |
| 27 | 3.568E+001 | 3.763E+001 | 3.958E+001 |
| 28 | 3.459E+001 | 3.651E+001 | 3.844E+001 |
| 29 | 3.353E+001 | 3.542E+001 | 3.733E+001 |
| 30 | 3.251E+001 | 3.438E+001 | 3.626E+001 |
| 31 | 3.153E+001 | 3.337E+001 | 3.523E+001 |
| 32 | 3.059E+001 | 3.240E+001 | 3.424E+001 |
| 33 | 2.967E+001 | 3.146E+001 | 3.328E+001 |
| 34 | 2.880E+001 | 3.056E+001 | 3.235E+001 |
| 35 | 2.795E+001 | 2.968E+001 | 3.145E+001 |
| 36 | 2.713E+001 | 2.884E+001 | 3.058E+001 |
| 37 | 2.634E+001 | 2.802E+001 | 2.974E+001 |
| 38 | 2.558E+001 | 2.724E+001 | 2.893E+001 |
| 39 | 2.484E+001 | 2.648E+001 | 2.815E+001 |
| 40 | 2.413E+001 | 2.574E+001 | 2.739E+001 |

# NTC THERMISTOR R-T CHARACTERISTICS

| TYPE | TC20-2S400J [T,B] |
|---|---|

| | | | |
|---|---|---|---|
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| B-VALUE(25/50℃) | 2750 K | B-TOLERANCE(±) | 3 % |

| T(℃) | Rmin(Ω) | Rnom(Ω) | Rmax(Ω) |
|---|---|---|---|
| 40 | 2.413E+001 | 2.574E+001 | 2.739E+001 |
| 41 | 2.344E+001 | 2.503E+001 | 2.665E+001 |
| 42 | 2.278E+001 | 2.434E+001 | 2.594E+001 |
| 43 | 2.214E+001 | 2.368E+001 | 2.526E+001 |
| 44 | 2.152E+001 | 2.303E+001 | 2.459E+001 |
| 45 | 2.093E+001 | 2.241E+001 | 2.395E+001 |
| 46 | 2.035E+001 | 2.181E+001 | 2.332E+001 |
| 47 | 1.979E+001 | 2.123E+001 | 2.272E+001 |
| 48 | 1.925E+001 | 2.067E+001 | 2.214E+001 |
| 49 | 1.873E+001 | 2.012E+001 | 2.157E+001 |
| 50 | 1.822E+001 | 1.960E+001 | 2.102E+001 |
| 51 | 1.773E+001 | 1.909E+001 | 2.049E+001 |
| 52 | 1.726E+001 | 1.859E+001 | 1.998E+001 |
| 53 | 1.680E+001 | 1.811E+001 | 1.948E+001 |
| 54 | 1.636E+001 | 1.765E+001 | 1.899E+001 |
| 55 | 1.593E+001 | 1.720E+001 | 1.852E+001 |
| 56 | 1.552E+001 | 1.677E+001 | 1.807E+001 |
| 57 | 1.512E+001 | 1.635E+001 | 1.763E+001 |
| 58 | 1.473E+001 | 1.594E+001 | 1.720E+001 |
| 59 | 1.435E+001 | 1.554E+001 | 1.679E+001 |
| 60 | 1.399E+001 | 1.516E+001 | 1.638E+001 |
| 61 | 1.363E+001 | 1.478E+001 | 1.599E+001 |
| 62 | 1.329E+001 | 1.442E+001 | 1.561E+001 |
| 63 | 1.296E+001 | 1.407E+001 | 1.525E+001 |
| 64 | 1.264E+001 | 1.373E+001 | 1.489E+001 |
| 65 | 1.232E+001 | 1.340E+001 | 1.454E+001 |
| 66 | 1.202E+001 | 1.308E+001 | 1.421E+001 |
| 67 | 1.173E+001 | 1.277E+001 | 1.388E+001 |
| 68 | 1.144E+001 | 1.247E+001 | 1.356E+001 |
| 69 | 1.117E+001 | 1.218E+001 | 1.325E+001 |
| 70 | 1.090E+001 | 1.190E+001 | 1.295E+001 |
| 71 | 1.064E+001 | 1.162E+001 | 1.266E+001 |
| 72 | 1.039E+001 | 1.135E+001 | 1.238E+001 |
| 73 | 1.014E+001 | 1.109E+001 | 1.210E+001 |
| 74 | 9.905E+000 | 1.084E+001 | 1.184E+001 |
| 75 | 9.674E+000 | 1.060E+001 | 1.158E+001 |
| 76 | 9.450E+000 | 1.036E+001 | 1.132E+001 |
| 77 | 9.233E+000 | 1.013E+001 | 1.108E+001 |
| 78 | 9.022E+000 | 9.902E+000 | 1.084E+001 |
| 79 | 8.817E+000 | 9.683E+000 | 1.061E+001 |
| 80 | 8.618E+000 | 9.471E+000 | 1.038E+001 |

| T(℃) | Rmin(Ω) | Rnom(Ω) | Rmax(Ω) |
|---|---|---|---|
| 80 | 8.618E+000 | 9.471E+000 | 1.038E+001 |
| 81 | 8.425E+000 | 9.265E+000 | 1.016E+001 |
| 82 | 8.237E+000 | 9.064E+000 | 9.950E+000 |
| 83 | 8.055E+000 | 8.869E+000 | 9.742E+000 |
| 84 | 7.877E+000 | 8.680E+000 | 9.540E+000 |
| 85 | 7.705E+000 | 8.495E+000 | 9.343E+000 |
| 86 | 7.537E+000 | 8.315E+000 | 9.151E+000 |
| 87 | 7.374E+000 | 8.140E+000 | 8.964E+000 |
| 88 | 7.215E+000 | 7.970E+000 | 8.782E+000 |
| 89 | 7.060E+000 | 7.804E+000 | 8.605E+000 |
| 90 | 6.910E+000 | 7.643E+000 | 8.432E+000 |
| 91 | 6.764E+000 | 7.486E+000 | 8.264E+000 |
| 92 | 6.621E+000 | 7.333E+000 | 8.100E+000 |
| 93 | 6.483E+000 | 7.184E+000 | 7.941E+000 |
| 94 | 6.348E+000 | 7.038E+000 | 7.785E+000 |
| 95 | 6.216E+000 | 6.897E+000 | 7.633E+000 |
| 96 | 6.088E+000 | 6.759E+000 | 7.485E+000 |
| 97 | 5.963E+000 | 6.624E+000 | 7.340E+000 |
| 98 | 5.841E+000 | 6.493E+000 | 7.199E+000 |
| 99 | 5.723E+000 | 6.365E+000 | 7.061E+000 |
| 100 | 5.607E+000 | 6.240E+000 | 6.927E+000 |
| 101 | 5.494E+000 | 6.118E+000 | 6.795E+000 |
| 102 | 5.384E+000 | 5.999E+000 | 6.667E+000 |
| 103 | 5.277E+000 | 5.883E+000 | 6.542E+000 |
| 104 | 5.173E+000 | 5.770E+000 | 6.420E+000 |
| 105 | 5.071E+000 | 5.659E+000 | 6.301E+000 |
| 106 | 4.971E+000 | 5.552E+000 | 6.184E+000 |
| 107 | 4.874E+000 | 5.447E+000 | 6.071E+000 |
| 108 | 4.780E+000 | 5.344E+000 | 5.960E+000 |
| 109 | 4.688E+000 | 5.244E+000 | 5.851E+000 |
| 110 | 4.598E+000 | 5.146E+000 | 5.745E+000 |
| 111 | 4.510E+000 | 5.051E+000 | 5.642E+000 |
| 112 | 4.424E+000 | 4.957E+000 | 5.541E+000 |
| 113 | 4.340E+000 | 4.866E+000 | 5.442E+000 |
| 114 | 4.259E+000 | 4.777E+000 | 5.346E+000 |
| 115 | 4.179E+000 | 4.691E+000 | 5.251E+000 |
| 116 | 4.101E+000 | 4.606E+000 | 5.159E+000 |
| 117 | 4.025E+000 | 4.523E+000 | 5.069E+000 |
| 118 | 3.951E+000 | 4.442E+000 | 4.981E+000 |
| 119 | 3.879E+000 | 4.363E+000 | 4.895E+000 |
| 120 | 3.808E+000 | 4.286E+000 | 4.811E+000 |
| 121 | 3.739E+000 | 4.210E+000 | 4.729E+000 |
| 122 | 3.671E+000 | 4.136E+000 | 4.648E+000 |
| 123 | 3.605E+000 | 4.064E+000 | 4.570E+000 |
| 124 | 3.541E+000 | 3.993E+000 | 4.493E+000 |
| 125 | 3.478E+000 | 3.924E+000 | 4.417E+000 |