# NTC THERMISTOR R-T CHARACTERISTICS

| TYPE | GR15-7A103F* |
|---|---|

| T0(℃) | T1(℃) | T2(℃) |
|---|---|---|
| 25 | 25 | 50 |

| R at T0℃ | 10000 Ω | R+TOLERANCE(%) | 1 | R-TOLERANCE(%) | 1 |
|---|---|---|---|---|---|
| B(T1℃/T2℃) | 4397 K | B+TOLERANCE(K) | 43.97 | B-TOLERANCE(K) | 43.97 |

| T(℃) | Rmin(Ω) | Rnom(Ω) | Rmax(Ω) |
|---|---|---|---|
| | | | |
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| | | | |
| | | | |
| -40 | 5.639E+05 | 5.935E+05 | 6.246E+05 |
| -39 | 5.221E+05 | 5.491E+05 | 5.774E+05 |
| -38 | 4.837E+05 | 5.083E+05 | 5.341E+05 |
| -37 | 4.484E+05 | 4.708E+05 | 4.942E+05 |
| -36 | 4.158E+05 | 4.362E+05 | 4.576E+05 |
| -35 | 3.858E+05 | 4.045E+05 | 4.240E+05 |
| -34 | 3.582E+05 | 3.752E+05 | 3.930E+05 |
| -33 | 3.327E+05 | 3.483E+05 | 3.645E+05 |
| -32 | 3.092E+05 | 3.234E+05 | 3.382E+05 |
| -31 | 2.875E+05 | 3.005E+05 | 3.140E+05 |
| -30 | 2.675E+05 | 2.793E+05 | 2.917E+05 |
| -29 | 2.490E+05 | 2.598E+05 | 2.711E+05 |
| -28 | 2.319E+05 | 2.418E+05 | 2.521E+05 |
| -27 | 2.160E+05 | 2.251E+05 | 2.346E+05 |
| -26 | 2.014E+05 | 2.097E+05 | 2.183E+05 |
| -25 | 1.878E+05 | 1.954E+05 | 2.033E+05 |
| -24 | 1.752E+05 | 1.822E+05 | 1.894E+05 |
| -23 | 1.636E+05 | 1.699E+05 | 1.766E+05 |
| -22 | 1.527E+05 | 1.586E+05 | 1.647E+05 |
| -21 | 1.427E+05 | 1.481E+05 | 1.536E+05 |
| -20 | 1.334E+05 | 1.383E+05 | 1.434E+05 |
| -19 | 1.247E+05 | 1.292E+05 | 1.339E+05 |
| -18 | 1.167E+05 | 1.208E+05 | 1.251E+05 |
| -17 | 1.092E+05 | 1.130E+05 | 1.169E+05 |
| -16 | 1.023E+05 | 1.057E+05 | 1.093E+05 |
| -15 | 9.579E+04 | 9.899E+04 | 1.023E+05 |
| -14 | 8.978E+04 | 9.272E+04 | 9.575E+04 |
| -13 | 8.418E+04 | 8.688E+04 | 8.966E+04 |
| -12 | 7.896E+04 | 8.145E+04 | 8.400E+04 |
| -11 | 7.411E+04 | 7.639E+04 | 7.873E+04 |
| -10 | 6.958E+04 | 7.167E+04 | 7.382E+04 |
| -9 | 6.535E+04 | 6.728E+04 | 6.925E+04 |
| -8 | 6.141E+04 | 6.318E+04 | 6.500E+04 |
| -7 | 5.774E+04 | 5.936E+04 | 6.103E+04 |
| -6 | 5.430E+04 | 5.580E+04 | 5.733E+04 |
| -5 | 5.110E+04 | 5.247E+04 | 5.388E+04 |
| -4 | 4.810E+04 | 4.936E+04 | 5.065E+04 |
| -3 | 4.529E+04 | 4.646E+04 | 4.764E+04 |
| -2 | 4.267E+04 | 4.374E+04 | 4.483E+04 |
| -1 | 4.022E+04 | 4.120E+04 | 4.221E+04 |
| 0 | 3.792E+04 | 3.883E+04 | 3.975E+04 |

| T(℃) | Rmin(Ω) | Rnom(Ω) | Rmax(Ω) |
|---|---|---|---|
| 0 | 3.792E+04 | 3.883E+04 | 3.975E+04 |
| 1 | 3.577E+04 | 3.660E+04 | 3.745E+04 |
| 2 | 3.375E+04 | 3.452E+04 | 3.530E+04 |
| 3 | 3.187E+04 | 3.257E+04 | 3.328E+04 |
| 4 | 3.009E+04 | 3.074E+04 | 3.140E+04 |
| 5 | 2.843E+04 | 2.903E+04 | 2.963E+04 |
| 6 | 2.688E+04 | 2.742E+04 | 2.797E+04 |
| 7 | 2.541E+04 | 2.591E+04 | 2.642E+04 |
| 8 | 2.404E+04 | 2.450E+04 | 2.497E+04 |
| 9 | 2.275E+04 | 2.317E+04 | 2.360E+04 |
| 10 | 2.154E+04 | 2.192E+04 | 2.232E+04 |
| 11 | 2.040E+04 | 2.075E+04 | 2.111E+04 |
| 12 | 1.932E+04 | 1.965E+04 | 1.998E+04 |
| 13 | 1.831E+04 | 1.861E+04 | 1.892E+04 |
| 14 | 1.736E+04 | 1.764E+04 | 1.792E+04 |
| 15 | 1.647E+04 | 1.672E+04 | 1.698E+04 |
| 16 | 1.563E+04 | 1.586E+04 | 1.609E+04 |
| 17 | 1.483E+04 | 1.504E+04 | 1.526E+04 |
| 18 | 1.408E+04 | 1.428E+04 | 1.447E+04 |
| 19 | 1.338E+04 | 1.355E+04 | 1.373E+04 |
| 20 | 1.271E+04 | 1.287E+04 | 1.303E+04 |
| 21 | 1.208E+04 | 1.223E+04 | 1.238E+04 |
| 22 | 1.149E+04 | 1.162E+04 | 1.176E+04 |
| 23 | 1.093E+04 | 1.105E+04 | 1.117E+04 |
| 24 | 1.040E+04 | 1.051E+04 | 1.062E+04 |
| 25 | 9.900E+03 | 1.000E+04 | 1.010E+04 |
| 26 | 9.418E+03 | 9.517E+03 | 9.617E+03 |
| 27 | 8.962E+03 | 9.061E+03 | 9.161E+03 |
| 28 | 8.531E+03 | 8.630E+03 | 8.729E+03 |
| 29 | 8.123E+03 | 8.221E+03 | 8.320E+03 |
| 30 | 7.738E+03 | 7.835E+03 | 7.933E+03 |
| 31 | 7.373E+03 | 7.470E+03 | 7.566E+03 |
| 32 | 7.028E+03 | 7.123E+03 | 7.219E+03 |
| 33 | 6.701E+03 | 6.795E+03 | 6.890E+03 |
| 34 | 6.392E+03 | 6.484E+03 | 6.578E+03 |
| 35 | 6.099E+03 | 6.190E+03 | 6.282E+03 |
| 36 | 5.821E+03 | 5.910E+03 | 6.001E+03 |
| 37 | 5.557E+03 | 5.645E+03 | 5.734E+03 |
| 38 | 5.307E+03 | 5.394E+03 | 5.481E+03 |
| 39 | 5.070E+03 | 5.155E+03 | 5.241E+03 |
| 40 | 4.845E+03 | 4.929E+03 | 5.013E+03 |
| 41 | 4.631E+03 | 4.713E+03 | 4.796E+03 |
| 42 | 4.428E+03 | 4.509E+03 | 4.590E+03 |
| 43 | 4.236E+03 | 4.315E+03 | 4.394E+03 |
| 44 | 4.053E+03 | 4.130E+03 | 4.208E+03 |
| 45 | 3.878E+03 | 3.954E+03 | 4.031E+03 |
| 46 | 3.713E+03 | 3.787E+03 | 3.862E+03 |
| 47 | 3.555E+03 | 3.628E+03 | 3.702E+03 |
| 48 | 3.406E+03 | 3.477E+03 | 3.549E+03 |
| 49 | 3.263E+03 | 3.332E+03 | 3.403E+03 |
| 50 | 3.127E+03 | 3.195E+03 | 3.264E+03 |

# NTC THERMISTOR R-T CHARACTERISTICS

| TYPE | GR15-7A103F* |
|---|---|

| T0(℃) | T1(℃) | T2(℃) |
|---|---|---|
| 25 | 25 | 50 |

| R at T0℃ | 10000 Ω | R+TOLERANCE(%) | 1 | R-TOLERANCE(%) | 1 |
|---|---|---|---|---|---|
| B(T1℃/T2℃) | 4397 K | B+TOLERANCE(K) | 43.97 | B-TOLERANCE(K) | 43.97 |

| T(℃) | Rmin(Ω) | Rnom(Ω) | Rmax(Ω) |
|---|---|---|---|
| 50 | 3.127E+03 | 3.195E+03 | 3.264E+03 |
| 51 | 2.998E+03 | 3.064E+03 | 3.132E+03 |
| 52 | 2.875E+03 | 2.940E+03 | 3.006E+03 |
| 53 | 2.758E+03 | 2.821E+03 | 2.885E+03 |
| 54 | 2.646E+03 | 2.708E+03 | 2.771E+03 |
| 55 | 2.539E+03 | 2.600E+03 | 2.661E+03 |
| 56 | 2.438E+03 | 2.497E+03 | 2.557E+03 |
| 57 | 2.341E+03 | 2.398E+03 | 2.457E+03 |
| 58 | 2.248E+03 | 2.304E+03 | 2.362E+03 |
| 59 | 2.160E+03 | 2.215E+03 | 2.271E+03 |
| 60 | 2.075E+03 | 2.129E+03 | 2.184E+03 |
| 61 | 1.995E+03 | 2.047E+03 | 2.101E+03 |
| 62 | 1.918E+03 | 1.969E+03 | 2.022E+03 |
| 63 | 1.845E+03 | 1.895E+03 | 1.946E+03 |
| 64 | 1.774E+03 | 1.823E+03 | 1.873E+03 |
| 65 | 1.707E+03 | 1.755E+03 | 1.804E+03 |
| 66 | 1.643E+03 | 1.690E+03 | 1.737E+03 |
| 67 | 1.582E+03 | 1.627E+03 | 1.674E+03 |
| 68 | 1.523E+03 | 1.567E+03 | 1.613E+03 |
| 69 | 1.467E+03 | 1.510E+03 | 1.554E+03 |
| 70 | 1.413E+03 | 1.455E+03 | 1.499E+03 |
| 71 | 1.362E+03 | 1.403E+03 | 1.445E+03 |
| 72 | 1.312E+03 | 1.353E+03 | 1.394E+03 |
| 73 | 1.265E+03 | 1.304E+03 | 1.345E+03 |
| 74 | 1.220E+03 | 1.258E+03 | 1.298E+03 |
| 75 | 1.177E+03 | 1.214E+03 | 1.252E+03 |
| 76 | 1.135E+03 | 1.172E+03 | 1.209E+03 |
| 77 | 1.095E+03 | 1.131E+03 | 1.168E+03 |
| 78 | 1.057E+03 | 1.092E+03 | 1.128E+03 |
| 79 | 1.021E+03 | 1.054E+03 | 1.089E+03 |
| 80 | 9.854E+02 | 1.018E+03 | 1.053E+03 |
| 81 | 9.517E+02 | 9.840E+02 | 1.017E+03 |
| 82 | 9.193E+02 | 9.508E+02 | 9.833E+02 |
| 83 | 8.882E+02 | 9.190E+02 | 9.507E+02 |
| 84 | 8.583E+02 | 8.884E+02 | 9.194E+02 |
| 85 | 8.296E+02 | 8.590E+02 | 8.893E+02 |
| 86 | 8.021E+02 | 8.307E+02 | 8.603E+02 |
| 87 | 7.756E+02 | 8.035E+02 | 8.324E+02 |
| 88 | 7.501E+02 | 7.774E+02 | 8.057E+02 |
| 89 | 7.256E+02 | 7.523E+02 | 7.799E+02 |
| 90 | 7.021E+02 | 7.281E+02 | 7.551E+02 |
| 91 | 6.794E+02 | 7.049E+02 | 7.312E+02 |
| 92 | 6.576E+02 | 6.825E+02 | 7.082E+02 |
| 93 | 6.367E+02 | 6.610E+02 | 6.861E+02 |
| 94 | 6.165E+02 | 6.402E+02 | 6.648E+02 |
| 95 | 5.971E+02 | 6.203E+02 | 6.443E+02 |
| 96 | 5.784E+02 | 6.010E+02 | 6.245E+02 |
| 97 | 5.604E+02 | 5.825E+02 | 6.055E+02 |
| 98 | 5.430E+02 | 5.647E+02 | 5.871E+02 |
| 99 | 5.263E+02 | 5.474E+02 | 5.694E+02 |
| 100 | 5.102E+02 | 5.309E+02 | 5.523E+02 |

| T(℃) | Rmin(Ω) | Rnom(Ω) | Rmax(Ω) |
|---|---|---|---|
| 100 | 5.102E+02 | 5.309E+02 | 5.523E+02 |
| 101 | 4.947E+02 | 5.149E+02 | 5.358E+02 |
| 102 | 4.797E+02 | 4.995E+02 | 5.200E+02 |
| 103 | 4.653E+02 | 4.846E+02 | 5.046E+02 |
| 104 | 4.514E+02 | 4.702E+02 | 4.899E+02 |
| 105 | 4.380E+02 | 4.564E+02 | 4.756E+02 |
| 106 | 4.250E+02 | 4.431E+02 | 4.618E+02 |
| 107 | 4.125E+02 | 4.302E+02 | 4.485E+02 |
| 108 | 4.005E+02 | 4.177E+02 | 4.357E+02 |
| 109 | 3.888E+02 | 4.057E+02 | 4.233E+02 |
| 110 | 3.776E+02 | 3.941E+02 | 4.113E+02 |
| 111 | 3.668E+02 | 3.829E+02 | 3.997E+02 |
| 112 | 3.563E+02 | 3.721E+02 | 3.885E+02 |
| 113 | 3.462E+02 | 3.616E+02 | 3.777E+02 |
| 114 | 3.364E+02 | 3.515E+02 | 3.672E+02 |
| 115 | 3.269E+02 | 3.417E+02 | 3.571E+02 |
| 116 | 3.178E+02 | 3.323E+02 | 3.474E+02 |
| 117 | 3.090E+02 | 3.231E+02 | 3.379E+02 |
| 118 | 3.004E+02 | 3.143E+02 | 3.288E+02 |
| 119 | 2.922E+02 | 3.058E+02 | 3.199E+02 |
| 120 | 2.842E+02 | 2.975E+02 | 3.114E+02 |
| 121 | 2.765E+02 | 2.895E+02 | 3.031E+02 |
| 122 | 2.690E+02 | 2.818E+02 | 2.951E+02 |
| 123 | 2.618E+02 | 2.743E+02 | 2.873E+02 |
| 124 | 2.548E+02 | 2.670E+02 | 2.798E+02 |
| 125 | 2.481E+02 | 2.600E+02 | 2.725E+02 |
| 126 | 2.415E+02 | 2.532E+02 | 2.655E+02 |
| 127 | 2.352E+02 | 2.466E+02 | 2.586E+02 |
| 128 | 2.290E+02 | 2.402E+02 | 2.520E+02 |
| 129 | 2.230E+02 | 2.341E+02 | 2.456E+02 |
| 130 | 2.173E+02 | 2.281E+02 | 2.394E+02 |
| 131 | 2.117E+02 | 2.222E+02 | 2.333E+02 |
| 132 | 2.062E+02 | 2.166E+02 | 2.275E+02 |
| 133 | 2.010E+02 | 2.111E+02 | 2.218E+02 |
| 134 | 1.959E+02 | 2.058E+02 | 2.163E+02 |
| 135 | 1.909E+02 | 2.007E+02 | 2.109E+02 |
| 136 | 1.861E+02 | 1.957E+02 | 2.057E+02 |
| 137 | 1.815E+02 | 1.909E+02 | 2.007E+02 |
| 138 | 1.770E+02 | 1.862E+02 | 1.958E+02 |
| 139 | 1.726E+02 | 1.816E+02 | 1.911E+02 |
| 140 | 1.684E+02 | 1.772E+02 | 1.865E+02 |
| 141 | 1.643E+02 | 1.729E+02 | 1.820E+02 |
| 142 | 1.603E+02 | 1.688E+02 | 1.777E+02 |
| 143 | 1.564E+02 | 1.647E+02 | 1.735E+02 |
| 144 | 1.526E+02 | 1.608E+02 | 1.694E+02 |
| 145 | 1.490E+02 | 1.570E+02 | 1.654E+02 |
| 146 | 1.454E+02 | 1.533E+02 | 1.616E+02 |
| 147 | 1.420E+02 | 1.497E+02 | 1.578E+02 |
| 148 | 1.386E+02 | 1.462E+02 | 1.542E+02 |
| 149 | 1.354E+02 | 1.428E+02 | 1.506E+02 |
| 150 | 1.322E+02 | 1.395E+02 | 1.472E+02 |

# NTC THERMISTOR R-T CHARACTERISTICS

| TYPE | GR15-7A103F* |
|---|---|

| T0(℃) | T1(℃) | T2(℃) |
|---|---|---|
| 25 | 25 | 50 |

| R at T0℃ | 10000 Ω | R+TOLERANCE(%) | 1 | R-TOLERANCE(%) | 1 |
|---|---|---|---|---|---|
| B(T1℃/T2℃) | 4397 K | B+TOLERANCE(K) | 43.97 | B-TOLERANCE(K) | 43.97 |

| T(℃) | Rmin(Ω) | Rnom(Ω) | Rmax(Ω) |
|---|---|---|---|
| 150 | 1.322E+02 | 1.395E+02 | 1.472E+02 |
| 151 | 1.291E+02 | 1.363E+02 | 1.438E+02 |
| 152 | 1.261E+02 | 1.332E+02 | 1.405E+02 |
| 153 | 1.232E+02 | 1.301E+02 | 1.374E+02 |
| 154 | 1.204E+02 | 1.272E+02 | 1.343E+02 |
| 155 | 1.177E+02 | 1.243E+02 | 1.313E+02 |
| 156 | 1.150E+02 | 1.215E+02 | 1.284E+02 |
| 157 | 1.124E+02 | 1.188E+02 | 1.255E+02 |
| 158 | 1.099E+02 | 1.161E+02 | 1.228E+02 |
| 159 | 1.074E+02 | 1.136E+02 | 1.201E+02 |
| 160 | 1.050E+02 | 1.111E+02 | 1.175E+02 |
| 161 | 1.027E+02 | 1.086E+02 | 1.149E+02 |
| 162 | 1.004E+02 | 1.063E+02 | 1.124E+02 |
| 163 | 9.823E+01 | 1.040E+02 | 1.100E+02 |
| 164 | 9.608E+01 | 1.017E+02 | 1.077E+02 |
| 165 | 9.400E+01 | 9.953E+01 | 1.054E+02 |
| 166 | 9.197E+01 | 9.740E+01 | 1.031E+02 |
| 167 | 8.999E+01 | 9.533E+01 | 1.010E+02 |
| 168 | 8.807E+01 | 9.331E+01 | 9.886E+01 |
| 169 | 8.620E+01 | 9.135E+01 | 9.680E+01 |
| 170 | 8.437E+01 | 8.944E+01 | 9.480E+01 |
| 171 | 8.259E+01 | 8.757E+01 | 9.284E+01 |
| 172 | 8.086E+01 | 8.576E+01 | 9.094E+01 |
| 173 | 7.918E+01 | 8.399E+01 | 8.908E+01 |
| 174 | 7.753E+01 | 8.226E+01 | 8.727E+01 |
| 175 | 7.593E+01 | 8.058E+01 | 8.550E+01 |
| 176 | 7.437E+01 | 7.894E+01 | 8.378E+01 |
| 177 | 7.285E+01 | 7.734E+01 | 8.211E+01 |
| 178 | 7.137E+01 | 7.579E+01 | 8.047E+01 |
| 179 | 6.992E+01 | 7.427E+01 | 7.887E+01 |
| 180 | 6.851E+01 | 7.279E+01 | 7.732E+01 |
| 181 | 6.714E+01 | 7.134E+01 | 7.580E+01 |
| 182 | 6.580E+01 | 6.993E+01 | 7.432E+01 |
| 183 | 6.449E+01 | 6.856E+01 | 7.287E+01 |
| 184 | 6.322E+01 | 6.722E+01 | 7.146E+01 |
| 185 | 6.197E+01 | 6.591E+01 | 7.009E+01 |
| 186 | 6.076E+01 | 6.463E+01 | 6.874E+01 |
| 187 | 5.958E+01 | 6.339E+01 | 6.743E+01 |
| 188 | 5.842E+01 | 6.217E+01 | 6.615E+01 |
| 189 | 5.730E+01 | 6.098E+01 | 6.490E+01 |
| 190 | 5.620E+01 | 5.983E+01 | 6.368E+01 |
| 191 | 5.513E+01 | 5.870E+01 | 6.250E+01 |
| 192 | 5.408E+01 | 5.760E+01 | 6.133E+01 |
| 193 | 5.306E+01 | 5.652E+01 | 6.020E+01 |
| 194 | 5.206E+01 | 5.547E+01 | 5.909E+01 |
| 195 | 5.108E+01 | 5.444E+01 | 5.801E+01 |
| 196 | 5.013E+01 | 5.343E+01 | 5.695E+01 |
| 197 | 4.920E+01 | 5.245E+01 | 5.591E+01 |
| 198 | 4.829E+01 | 5.149E+01 | 5.490E+01 |
| 199 | 4.740E+01 | 5.055E+01 | 5.391E+01 |
| 200 | 4.653E+01 | 4.963E+01 | 5.294E+01 |

| T(℃) | Rmin(Ω) | Rnom(Ω) | Rmax(Ω) |
|---|---|---|---|
| 200 | 4.653E+01 | 4.963E+01 | 5.294E+01 |
| 201 | 4.567E+01 | 4.873E+01 | 5.199E+01 |
| 202 | 4.484E+01 | 4.785E+01 | 5.106E+01 |
| 203 | 4.402E+01 | 4.699E+01 | 5.015E+01 |
| 204 | 4.323E+01 | 4.615E+01 | 4.926E+01 |
| 205 | 4.245E+01 | 4.533E+01 | 4.839E+01 |
| 206 | 4.169E+01 | 4.452E+01 | 4.754E+01 |
| 207 | 4.095E+01 | 4.374E+01 | 4.671E+01 |
| 208 | 4.022E+01 | 4.297E+01 | 4.590E+01 |
| 209 | 3.951E+01 | 4.222E+01 | 4.511E+01 |
| 210 | 3.881E+01 | 4.148E+01 | 4.433E+01 |
| 211 | 3.813E+01 | 4.076E+01 | 4.357E+01 |
| 212 | 3.747E+01 | 4.006E+01 | 4.283E+01 |
| 213 | 3.682E+01 | 3.937E+01 | 4.210E+01 |
| 214 | 3.618E+01 | 3.870E+01 | 4.139E+01 |
| 215 | 3.556E+01 | 3.804E+01 | 4.069E+01 |
| 216 | 3.495E+01 | 3.739E+01 | 4.001E+01 |
| 217 | 3.435E+01 | 3.676E+01 | 3.934E+01 |
| 218 | 3.377E+01 | 3.615E+01 | 3.869E+01 |
| 219 | 3.320E+01 | 3.554E+01 | 3.805E+01 |
| 220 | 3.264E+01 | 3.495E+01 | 3.742E+01 |
| 221 | 3.210E+01 | 3.437E+01 | 3.681E+01 |
| 222 | 3.156E+01 | 3.381E+01 | 3.621E+01 |
| 223 | 3.104E+01 | 3.325E+01 | 3.562E+01 |
| 224 | 3.053E+01 | 3.271E+01 | 3.505E+01 |
| 225 | 3.003E+01 | 3.218E+01 | 3.448E+01 |
| 226 | 2.953E+01 | 3.166E+01 | 3.393E+01 |
| 227 | 2.905E+01 | 3.115E+01 | 3.339E+01 |
| 228 | 2.858E+01 | 3.065E+01 | 3.286E+01 |
| 229 | 2.812E+01 | 3.016E+01 | 3.234E+01 |
| 230 | 2.766E+01 | 2.967E+01 | 3.183E+01 |
| 231 | 2.722E+01 | 2.920E+01 | 3.132E+01 |
| 232 | 2.678E+01 | 2.874E+01 | 3.083E+01 |
| 233 | 2.635E+01 | 2.828E+01 | 3.035E+01 |
| 234 | 2.593E+01 | 2.783E+01 | 2.987E+01 |
| 235 | 2.552E+01 | 2.740E+01 | 2.941E+01 |
| 236 | 2.512E+01 | 2.697E+01 | 2.896E+01 |
| 237 | 2.472E+01 | 2.655E+01 | 2.851E+01 |
| 238 | 2.433E+01 | 2.614E+01 | 2.807E+01 |
| 239 | 2.395E+01 | 2.573E+01 | 2.764E+01 |
| 240 | 2.358E+01 | 2.534E+01 | 2.722E+01 |
| 241 | 2.322E+01 | 2.495E+01 | 2.681E+01 |
| 242 | 2.286E+01 | 2.457E+01 | 2.641E+01 |
| 243 | 2.251E+01 | 2.420E+01 | 2.601E+01 |
| 244 | 2.217E+01 | 2.383E+01 | 2.562E+01 |
| 245 | 2.183E+01 | 2.347E+01 | 2.524E+01 |
| 246 | 2.150E+01 | 2.312E+01 | 2.487E+01 |
| 247 | 2.117E+01 | 2.278E+01 | 2.450E+01 |
| 248 | 2.086E+01 | 2.244E+01 | 2.414E+01 |
| 249 | 2.054E+01 | 2.211E+01 | 2.379E+01 |
| 250 | 2.024E+01 | 2.178E+01 | 2.344E+01 |

# NTC THERMISTOR R-T CHARACTERISTICS

| TYPE | GR15-7A103F* |
|---|---|

| T0(℃) | T1(℃) | T2(℃) |
|---|---|---|
| 25 | 25 | 50 |

| R at T0℃ | 10000 Ω | R+TOLERANCE(%) | 1 | R-TOLERANCE(%) | 1 |
|---|---|---|---|---|---|
| B(T1℃/T2℃) | 4397 K | B+TOLERANCE(K) | 43.97 | B-TOLERANCE(K) | 43.97 |

| T(℃) | Rmin(Ω) | Rnom(Ω) | Rmax(Ω) |
|---|---|---|---|
| 250 | 2.024E+01 | 2.178E+01 | 2.344E+01 |
| 251 | 1.994E+01 | 2.146E+01 | 2.310E+01 |
| 252 | 1.964E+01 | 2.115E+01 | 2.277E+01 |
| 253 | 1.936E+01 | 2.084E+01 | 2.244E+01 |
| 254 | 1.907E+01 | 2.054E+01 | 2.212E+01 |
| 255 | 1.879E+01 | 2.024E+01 | 2.180E+01 |
| 256 | 1.852E+01 | 1.995E+01 | 2.149E+01 |
| 257 | 1.825E+01 | 1.967E+01 | 2.119E+01 |
| 258 | 1.799E+01 | 1.939E+01 | 2.089E+01 |
| 259 | 1.773E+01 | 1.911E+01 | 2.060E+01 |
| 260 | 1.748E+01 | 1.884E+01 | 2.031E+01 |
| 261 | 1.723E+01 | 1.858E+01 | 2.003E+01 |
| 262 | 1.699E+01 | 1.832E+01 | 1.975E+01 |
| 263 | 1.675E+01 | 1.806E+01 | 1.948E+01 |
| 264 | 1.651E+01 | 1.781E+01 | 1.921E+01 |
| 265 | 1.628E+01 | 1.757E+01 | 1.895E+01 |
| 266 | 1.606E+01 | 1.732E+01 | 1.869E+01 |
| 267 | 1.583E+01 | 1.709E+01 | 1.844E+01 |
| 268 | 1.561E+01 | 1.685E+01 | 1.819E+01 |
| 269 | 1.540E+01 | 1.662E+01 | 1.794E+01 |
| 270 | 1.519E+01 | 1.640E+01 | 1.770E+01 |
| 271 | 1.498E+01 | 1.618E+01 | 1.746E+01 |
| 272 | 1.478E+01 | 1.596E+01 | 1.723E+01 |
| 273 | 1.458E+01 | 1.575E+01 | 1.700E+01 |
| 274 | 1.438E+01 | 1.554E+01 | 1.678E+01 |
| 275 | 1.419E+01 | 1.533E+01 | 1.656E+01 |
| 276 | 1.400E+01 | 1.513E+01 | 1.634E+01 |
| 277 | 1.381E+01 | 1.493E+01 | 1.613E+01 |
| 278 | 1.363E+01 | 1.473E+01 | 1.592E+01 |
| 279 | 1.345E+01 | 1.454E+01 | 1.572E+01 |
| 280 | 1.327E+01 | 1.435E+01 | 1.551E+01 |
| 281 | 1.310E+01 | 1.416E+01 | 1.531E+01 |
| 282 | 1.293E+01 | 1.398E+01 | 1.512E+01 |
| 283 | 1.276E+01 | 1.380E+01 | 1.493E+01 |
| 284 | 1.260E+01 | 1.363E+01 | 1.474E+01 |
| 285 | 1.243E+01 | 1.345E+01 | 1.455E+01 |
| 286 | 1.227E+01 | 1.328E+01 | 1.437E+01 |
| 287 | 1.212E+01 | 1.311E+01 | 1.419E+01 |
| 288 | 1.196E+01 | 1.295E+01 | 1.401E+01 |
| 289 | 1.181E+01 | 1.279E+01 | 1.384E+01 |
| 290 | 1.166E+01 | 1.263E+01 | 1.367E+01 |
| 291 | 1.151E+01 | 1.247E+01 | 1.350E+01 |
| 292 | 1.137E+01 | 1.231E+01 | 1.333E+01 |
| 293 | 1.123E+01 | 1.216E+01 | 1.317E+01 |
| 294 | 1.109E+01 | 1.201E+01 | 1.301E+01 |
| 295 | 1.095E+01 | 1.187E+01 | 1.285E+01 |
| 296 | 1.082E+01 | 1.172E+01 | 1.270E+01 |
| 297 | 1.068E+01 | 1.158E+01 | 1.255E+01 |
| 298 | 1.055E+01 | 1.144E+01 | 1.240E+01 |
| 299 | 1.042E+01 | 1.130E+01 | 1.225E+01 |
| 300 | 1.030E+01 | 1.116E+01 | 1.210E+01 |

| T(℃) | Rmin(Ω) | Rnom(Ω) | Rmax(Ω) |
|---|---|---|---|
| | | | |