| DATE. | May 27, 2025 | No. DRF-25F26 | 1/2 |
|---|---|---|---|

# NTC THERMISTOR R-T CHARACTERISTICS

| TYPE | TD11-4H104F[T,B] |
|---|---|

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

| | | | | | |
|---|---|---|---|---|---|
| R at T0℃ | 100000 Ω | R+TOLERANCE(%) | 1.0 | R-TOLERANCE(%) | 1.0 |
| B(T1℃/T2℃) | 4360 K | B+TOLERANCE(K) | 43.6 | B-TOLERANCE(K) | 43.6 |

| T(℃) | Rmin(Ω) | Rnom(Ω) | Rmax(Ω) |
|---|---|---|---|
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| | | | |
| −40 | 4.889E+06 | 5.144E+06 | 5.411E+06 |
| −39 | 4.547E+06 | 4.780E+06 | 5.025E+06 |
| −38 | 4.231E+06 | 4.445E+06 | 4.668E+06 |
| −37 | 3.938E+06 | 4.134E+06 | 4.339E+06 |
| −36 | 3.668E+06 | 3.847E+06 | 4.034E+06 |
| −35 | 3.417E+06 | 3.581E+06 | 3.752E+06 |
| −34 | 3.184E+06 | 3.334E+06 | 3.491E+06 |
| −33 | 2.969E+06 | 3.106E+06 | 3.250E+06 |
| −32 | 2.769E+06 | 2.895E+06 | 3.027E+06 |
| −31 | 2.583E+06 | 2.699E+06 | 2.820E+06 |
| −30 | 2.411E+06 | 2.518E+06 | 2.628E+06 |
| −29 | 2.251E+06 | 2.349E+06 | 2.450E+06 |
| −28 | 2.103E+06 | 2.192E+06 | 2.285E+06 |
| −27 | 1.965E+06 | 2.047E+06 | 2.132E+06 |
| −26 | 1.837E+06 | 1.912E+06 | 1.990E+06 |
| −25 | 1.718E+06 | 1.787E+06 | 1.859E+06 |
| −24 | 1.607E+06 | 1.671E+06 | 1.737E+06 |
| −23 | 1.504E+06 | 1.563E+06 | 1.623E+06 |
| −22 | 1.409E+06 | 1.462E+06 | 1.518E+06 |
| −21 | 1.320E+06 | 1.369E+06 | 1.420E+06 |
| −20 | 1.237E+06 | 1.282E+06 | 1.329E+06 |
| −19 | 1.159E+06 | 1.201E+06 | 1.244E+06 |
| −18 | 1.087E+06 | 1.126E+06 | 1.165E+06 |
| −17 | 1.020E+06 | 1.056E+06 | 1.092E+06 |
| −16 | 9.578E+05 | 9.903E+05 | 1.024E+06 |
| −15 | 8.994E+05 | 9.294E+05 | 9.602E+05 |
| −14 | 8.450E+05 | 8.726E+05 | 9.009E+05 |
| −13 | 7.942E+05 | 8.196E+05 | 8.456E+05 |
| −12 | 7.468E+05 | 7.701E+05 | 7.941E+05 |
| −11 | 7.025E+05 | 7.240E+05 | 7.461E+05 |
| −10 | 6.611E+05 | 6.809E+05 | 7.012E+05 |
| −9 | 6.224E+05 | 6.407E+05 | 6.594E+05 |
| −8 | 5.863E+05 | 6.031E+05 | 6.203E+05 |
| −7 | 5.524E+05 | 5.679E+05 | 5.837E+05 |
| −6 | 5.207E+05 | 5.349E+05 | 5.495E+05 |
| −5 | 4.909E+05 | 5.041E+05 | 5.175E+05 |
| −4 | 4.631E+05 | 4.752E+05 | 4.876E+05 |
| −3 | 4.370E+05 | 4.481E+05 | 4.595E+05 |
| −2 | 4.125E+05 | 4.228E+05 | 4.332E+05 |
| −1 | 3.895E+05 | 3.990E+05 | 4.086E+05 |
| 0 | 3.679E+05 | 3.766E+05 | 3.855E+05 |

| T(℃) | Rmin(Ω) | Rnom(Ω) | Rmax(Ω) |
|---|---|---|---|
| 0 | 3.679E+05 | 3.766E+05 | 3.855E+05 |
| 1 | 3.476E+05 | 3.557E+05 | 3.639E+05 |
| 2 | 3.286E+05 | 3.360E+05 | 3.435E+05 |
| 3 | 3.107E+05 | 3.176E+05 | 3.245E+05 |
| 4 | 2.939E+05 | 3.002E+05 | 3.066E+05 |
| 5 | 2.781E+05 | 2.839E+05 | 2.898E+05 |
| 6 | 2.633E+05 | 2.686E+05 | 2.740E+05 |
| 7 | 2.493E+05 | 2.542E+05 | 2.592E+05 |
| 8 | 2.362E+05 | 2.407E+05 | 2.453E+05 |
| 9 | 2.238E+05 | 2.280E+05 | 2.322E+05 |
| 10 | 2.122E+05 | 2.160E+05 | 2.198E+05 |
| 11 | 2.012E+05 | 2.047E+05 | 2.083E+05 |
| 12 | 1.909E+05 | 1.941E+05 | 1.974E+05 |
| 13 | 1.811E+05 | 1.841E+05 | 1.871E+05 |
| 14 | 1.719E+05 | 1.747E+05 | 1.774E+05 |
| 15 | 1.633E+05 | 1.658E+05 | 1.683E+05 |
| 16 | 1.551E+05 | 1.574E+05 | 1.597E+05 |
| 17 | 1.473E+05 | 1.494E+05 | 1.515E+05 |
| 18 | 1.400E+05 | 1.420E+05 | 1.439E+05 |
| 19 | 1.332E+05 | 1.349E+05 | 1.367E+05 |
| 20 | 1.266E+05 | 1.282E+05 | 1.298E+05 |
| 21 | 1.205E+05 | 1.219E+05 | 1.234E+05 |
| 22 | 1.146E+05 | 1.160E+05 | 1.173E+05 |
| 23 | 1.091E+05 | 1.104E+05 | 1.116E+05 |
| 24 | 1.039E+05 | 1.050E+05 | 1.061E+05 |
| 25 | 9.900E+04 | 1.000E+05 | 1.010E+05 |
| 26 | 9.424E+04 | 9.524E+04 | 9.624E+04 |
| 27 | 8.974E+04 | 9.073E+04 | 9.173E+04 |
| 28 | 8.548E+04 | 8.647E+04 | 8.746E+04 |
| 29 | 8.144E+04 | 8.243E+04 | 8.341E+04 |
| 30 | 7.763E+04 | 7.860E+04 | 7.958E+04 |
| 31 | 7.401E+04 | 7.497E+04 | 7.594E+04 |
| 32 | 7.058E+04 | 7.153E+04 | 7.249E+04 |
| 33 | 6.733E+04 | 6.827E+04 | 6.922E+04 |
| 34 | 6.426E+04 | 6.518E+04 | 6.612E+04 |
| 35 | 6.133E+04 | 6.225E+04 | 6.317E+04 |
| 36 | 5.856E+04 | 5.946E+04 | 6.037E+04 |
| 37 | 5.594E+04 | 5.682E+04 | 5.771E+04 |
| 38 | 5.344E+04 | 5.431E+04 | 5.519E+04 |
| 39 | 5.107E+04 | 5.193E+04 | 5.279E+04 |
| 40 | 4.882E+04 | 4.966E+04 | 5.051E+04 |
| 41 | 4.668E+04 | 4.750E+04 | 4.834E+04 |
| 42 | 4.465E+04 | 4.546E+04 | 4.627E+04 |
| 43 | 4.272E+04 | 4.351E+04 | 4.431E+04 |
| 44 | 4.088E+04 | 4.165E+04 | 4.244E+04 |
| 45 | 3.913E+04 | 3.989E+04 | 4.066E+04 |
| 46 | 3.747E+04 | 3.821E+04 | 3.897E+04 |
| 47 | 3.589E+04 | 3.661E+04 | 3.735E+04 |
| 48 | 3.438E+04 | 3.509E+04 | 3.582E+04 |
| 49 | 3.294E+04 | 3.364E+04 | 3.435E+04 |
| 50 | 3.158E+04 | 3.226E+04 | 3.295E+04 |

# NTC THERMISTOR R-T CHARACTERISTICS

| TYPE | TD11-4H104F[T,B] |
|---|---|

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

| | | | | | |
|---|---|---|---|---|---|
| R at T0℃ | 100000 Ω | R+TOLERANCE(%) | 1.0 | R-TOLERANCE(%) | 1.0 |
| B(T1℃/T2℃) | 4360 K | B+TOLERANCE(K) | 43.6 | B-TOLERANCE(K) | 43.6 |

| T(℃) | Rmin(Ω) | Rnom(Ω) | Rmax(Ω) |
|---|---|---|---|
| 50 | 3.158E+04 | 3.226E+04 | 3.295E+04 |
| 51 | 3.028E+04 | 3.094E+04 | 3.162E+04 |
| 52 | 2.904E+04 | 2.969E+04 | 3.035E+04 |
| 53 | 2.786E+04 | 2.849E+04 | 2.914E+04 |
| 54 | 2.673E+04 | 2.735E+04 | 2.798E+04 |
| 55 | 2.565E+04 | 2.626E+04 | 2.688E+04 |
| 56 | 2.463E+04 | 2.522E+04 | 2.583E+04 |
| 57 | 2.365E+04 | 2.423E+04 | 2.482E+04 |
| 58 | 2.271E+04 | 2.328E+04 | 2.386E+04 |
| 59 | 2.182E+04 | 2.237E+04 | 2.294E+04 |
| 60 | 2.097E+04 | 2.151E+04 | 2.206E+04 |
| 61 | 2.016E+04 | 2.068E+04 | 2.122E+04 |
| 62 | 1.938E+04 | 1.989E+04 | 2.042E+04 |
| 63 | 1.864E+04 | 1.914E+04 | 1.965E+04 |
| 64 | 1.792E+04 | 1.841E+04 | 1.892E+04 |
| 65 | 1.725E+04 | 1.772E+04 | 1.821E+04 |
| 66 | 1.660E+04 | 1.706E+04 | 1.754E+04 |
| 67 | 1.597E+04 | 1.643E+04 | 1.690E+04 |
| 68 | 1.538E+04 | 1.582E+04 | 1.628E+04 |
| 69 | 1.481E+04 | 1.524E+04 | 1.569E+04 |
| 70 | 1.426E+04 | 1.469E+04 | 1.512E+04 |
| 71 | 1.374E+04 | 1.416E+04 | 1.458E+04 |
| 72 | 1.324E+04 | 1.365E+04 | 1.406E+04 |
| 73 | 1.277E+04 | 1.316E+04 | 1.356E+04 |
| 74 | 1.231E+04 | 1.269E+04 | 1.308E+04 |
| 75 | 1.187E+04 | 1.224E+04 | 1.263E+04 |
| 76 | 1.145E+04 | 1.181E+04 | 1.219E+04 |
| 77 | 1.104E+04 | 1.140E+04 | 1.176E+04 |
| 78 | 1.065E+04 | 1.100E+04 | 1.136E+04 |
| 79 | 1.028E+04 | 1.062E+04 | 1.097E+04 |
| 80 | 9.923E+03 | 1.025E+04 | 1.060E+04 |
| 81 | 9.580E+03 | 9.903E+03 | 1.024E+04 |
| 82 | 9.250E+03 | 9.565E+03 | 9.890E+03 |
| 83 | 8.933E+03 | 9.241E+03 | 9.558E+03 |
| 84 | 8.629E+03 | 8.929E+03 | 9.239E+03 |
| 85 | 8.337E+03 | 8.630E+03 | 8.933E+03 |
| 86 | 8.056E+03 | 8.343E+03 | 8.638E+03 |
| 87 | 7.787E+03 | 8.066E+03 | 8.354E+03 |
| 88 | 7.528E+03 | 7.800E+03 | 8.082E+03 |
| 89 | 7.279E+03 | 7.545E+03 | 7.820E+03 |
| 90 | 7.039E+03 | 7.299E+03 | 7.567E+03 |
| 91 | 6.809E+03 | 7.063E+03 | 7.325E+03 |
| 92 | 6.588E+03 | 6.835E+03 | 7.091E+03 |
| 93 | 6.375E+03 | 6.616E+03 | 6.866E+03 |
| 94 | 6.170E+03 | 6.406E+03 | 6.650E+03 |
| 95 | 5.972E+03 | 6.203E+03 | 6.441E+03 |
| 96 | 5.782E+03 | 6.007E+03 | 6.240E+03 |
| 97 | 5.599E+03 | 5.819E+03 | 6.047E+03 |
| 98 | 5.423E+03 | 5.638E+03 | 5.860E+03 |
| 99 | 5.253E+03 | 5.463E+03 | 5.680E+03 |
| 100 | 5.090E+03 | 5.294E+03 | 5.507E+03 |

| T(℃) | Rmin(Ω) | Rnom(Ω) | Rmax(Ω) |
|---|---|---|---|
| 100 | 5.090E+03 | 5.294E+03 | 5.507E+03 |
| 101 | 4.932E+03 | 5.132E+03 | 5.339E+03 |
| 102 | 4.780E+03 | 4.975E+03 | 5.178E+03 |
| 103 | 4.633E+03 | 4.824E+03 | 5.022E+03 |
| 104 | 4.492E+03 | 4.678E+03 | 4.872E+03 |
| 105 | 4.356E+03 | 4.538E+03 | 4.727E+03 |
| 106 | 4.224E+03 | 4.402E+03 | 4.587E+03 |
| 107 | 4.097E+03 | 4.272E+03 | 4.452E+03 |
| 108 | 3.975E+03 | 4.145E+03 | 4.322E+03 |
| 109 | 3.857E+03 | 4.024E+03 | 4.197E+03 |
| 110 | 3.743E+03 | 3.906E+03 | 4.075E+03 |
| 111 | 3.634E+03 | 3.793E+03 | 3.958E+03 |
| 112 | 3.528E+03 | 3.683E+03 | 3.845E+03 |
| 113 | 3.425E+03 | 3.577E+03 | 3.735E+03 |
| 114 | 3.327E+03 | 3.475E+03 | 3.630E+03 |
| 115 | 3.231E+03 | 3.376E+03 | 3.528E+03 |
| 116 | 3.139E+03 | 3.281E+03 | 3.429E+03 |
| 117 | 3.050E+03 | 3.188E+03 | 3.333E+03 |
| 118 | 2.963E+03 | 3.099E+03 | 3.241E+03 |
| 119 | 2.880E+03 | 3.013E+03 | 3.152E+03 |
| 120 | 2.799E+03 | 2.929E+03 | 3.065E+03 |
| 121 | 2.722E+03 | 2.849E+03 | 2.982E+03 |
| 122 | 2.646E+03 | 2.771E+03 | 2.901E+03 |
| 123 | 2.573E+03 | 2.695E+03 | 2.822E+03 |
| 124 | 2.503E+03 | 2.622E+03 | 2.746E+03 |
| 125 | 2.434E+03 | 2.551E+03 | 2.673E+03 |
| 126 | 2.368E+03 | 2.483E+03 | 2.602E+03 |
| 127 | 2.304E+03 | 2.416E+03 | 2.533E+03 |
| 128 | 2.243E+03 | 2.352E+03 | 2.466E+03 |
| 129 | 2.183E+03 | 2.290E+03 | 2.402E+03 |
| 130 | 2.125E+03 | 2.229E+03 | 2.339E+03 |
| 131 | 2.068E+03 | 2.171E+03 | 2.278E+03 |
| 132 | 2.014E+03 | 2.114E+03 | 2.219E+03 |
| 133 | 1.961E+03 | 2.059E+03 | 2.162E+03 |
| 134 | 1.910E+03 | 2.006E+03 | 2.107E+03 |
| 135 | 1.860E+03 | 1.955E+03 | 2.054E+03 |
| 136 | 1.812E+03 | 1.905E+03 | 2.002E+03 |
| 137 | 1.766E+03 | 1.856E+03 | 1.951E+03 |
| 138 | 1.721E+03 | 1.809E+03 | 1.902E+03 |
| 139 | 1.677E+03 | 1.764E+03 | 1.855E+03 |
| 140 | 1.635E+03 | 1.720E+03 | 1.809E+03 |
| 141 | 1.594E+03 | 1.678E+03 | 1.765E+03 |
| 142 | 1.555E+03 | 1.637E+03 | 1.723E+03 |
| 143 | 1.517E+03 | 1.597E+03 | 1.681E+03 |
| 144 | 1.480E+03 | 1.558E+03 | 1.641E+03 |
| 145 | 1.443E+03 | 1.520E+03 | 1.601E+03 |
| 146 | 1.408E+03 | 1.483E+03 | 1.563E+03 |
| 147 | 1.373E+03 | 1.447E+03 | 1.525E+03 |
| 148 | 1.340E+03 | 1.412E+03 | 1.489E+03 |
| 149 | 1.307E+03 | 1.378E+03 | 1.453E+03 |
| 150 | 1.275E+03 | 1.345E+03 | 1.418E+03 |