

## NTC THERMISTOR R-T CHARACTERISTICS

TYPE TD11-3M104F [T, B]

RESISTANCE (at25°C)	100000 Ω	R-TOLERANCE (±)	1 %
B-VALUE (25/50°C)	3580 K	B-TOLERANCE (±)	1 %

T(°C)	Rmin(Ω)	Rnom(Ω)	Rmax(Ω)
-40	2.326E+06	2.430E+06	2.538E+06
-39	2.192E+06	2.288E+06	2.388E+06
-38	2.066E+06	2.156E+06	2.248E+06
-37	1.949E+06	2.031E+06	2.117E+06
-36	1.838E+06	1.915E+06	1.995E+06
-35	1.735E+06	1.806E+06	1.881E+06
-34	1.638E+06	1.705E+06	1.773E+06
-33	1.547E+06	1.609E+06	1.673E+06
-32	1.462E+06	1.519E+06	1.579E+06
-31	1.382E+06	1.435E+06	1.491E+06
-30	1.307E+06	1.357E+06	1.408E+06
-29	1.236E+06	1.283E+06	1.330E+06
-28	1.170E+06	1.213E+06	1.257E+06
-27	1.108E+06	1.148E+06	1.189E+06
-26	1.049E+06	1.086E+06	1.125E+06
-25	9.938E+05	1.028E+06	1.064E+06
-24	9.418E+05	9.741E+05	1.007E+06
-23	8.929E+05	9.230E+05	9.539E+05
-22	8.469E+05	8.749E+05	9.037E+05
-21	8.035E+05	8.296E+05	8.564E+05
-20	7.625E+05	7.869E+05	8.119E+05
-19	7.240E+05	7.467E+05	7.700E+05
-18	6.876E+05	7.087E+05	7.305E+05
-17	6.533E+05	6.730E+05	6.932E+05
-16	6.209E+05	6.392E+05	6.581E+05
-15	5.902E+05	6.074E+05	6.250E+05
-14	5.613E+05	5.773E+05	5.937E+05
-13	5.340E+05	5.489E+05	5.642E+05
-12	5.081E+05	5.221E+05	5.363E+05
-11	4.837E+05	4.967E+05	5.100E+05
-10	4.606E+05	4.727E+05	4.851E+05
-9	4.387E+05	4.500E+05	4.616E+05
-8	4.180E+05	4.285E+05	4.393E+05
-7	3.983E+05	4.082E+05	4.183E+05
-6	3.798E+05	3.890E+05	3.984E+05
-5	3.622E+05	3.708E+05	3.795E+05
-4	3.455E+05	3.535E+05	3.617E+05
-3	3.296E+05	3.371E+05	3.448E+05
-2	3.146E+05	3.216E+05	3.288E+05
-1	3.004E+05	3.069E+05	3.136E+05
0	2.869E+05	2.930E+05	2.992E+05
1	2.741E+05	2.798E+05	2.856E+05
2	2.619E+05	2.672E+05	2.726E+05
3	2.504E+05	2.553E+05	2.603E+05
4	2.394E+05	2.440E+05	2.487E+05
5	2.289E+05	2.332E+05	2.376E+05
6	2.190E+05	2.230E+05	2.271E+05
7	2.096E+05	2.133E+05	2.171E+05
8	2.006E+05	2.041E+05	2.076E+05
9	1.920E+05	1.953E+05	1.986E+05
10	1.839E+05	1.869E+05	1.900E+05

T(°C)	Rmin(Ω)	Rnom(Ω)	Rmax(Ω)
10	1.839E+05	1.869E+05	1.900E+05
11	1.762E+05	1.790E+05	1.819E+05
12	1.688E+05	1.714E+05	1.741E+05
13	1.618E+05	1.642E+05	1.667E+05
14	1.551E+05	1.573E+05	1.597E+05
15	1.487E+05	1.508E+05	1.530E+05
16	1.426E+05	1.446E+05	1.466E+05
17	1.368E+05	1.386E+05	1.405E+05
18	1.313E+05	1.330E+05	1.347E+05
19	1.260E+05	1.276E+05	1.292E+05
20	1.210E+05	1.224E+05	1.239E+05
21	1.162E+05	1.175E+05	1.189E+05
22	1.116E+05	1.128E+05	1.141E+05
23	1.072E+05	1.084E+05	1.095E+05
24	1.030E+05	1.041E+05	1.052E+05
25	9.900E+04	1.000E+05	1.010E+05
26	9.510E+04	9.610E+04	9.710E+04
27	9.138E+04	9.238E+04	9.337E+04
28	8.782E+04	8.881E+04	8.981E+04
29	8.442E+04	8.541E+04	8.640E+04
30	8.117E+04	8.216E+04	8.314E+04
31	7.807E+04	7.904E+04	8.002E+04
32	7.510E+04	7.606E+04	7.704E+04
33	7.226E+04	7.321E+04	7.418E+04
34	6.954E+04	7.049E+04	7.144E+04
35	6.694E+04	6.788E+04	6.882E+04
36	6.445E+04	6.537E+04	6.631E+04
37	6.206E+04	6.298E+04	6.391E+04
38	5.978E+04	6.069E+04	6.160E+04
39	5.759E+04	5.849E+04	5.939E+04
40	5.550E+04	5.638E+04	5.727E+04
41	5.349E+04	5.436E+04	5.524E+04
42	5.156E+04	5.242E+04	5.329E+04
43	4.972E+04	5.056E+04	5.142E+04
44	4.795E+04	4.878E+04	4.963E+04
45	4.625E+04	4.707E+04	4.790E+04
46	4.462E+04	4.543E+04	4.625E+04
47	4.306E+04	4.386E+04	4.466E+04
48	4.156E+04	4.234E+04	4.314E+04
49	4.012E+04	4.089E+04	4.167E+04
50	3.874E+04	3.950E+04	4.026E+04
51	3.741E+04	3.816E+04	3.891E+04
52	3.614E+04	3.687E+04	3.761E+04
53	3.491E+04	3.563E+04	3.636E+04
54	3.374E+04	3.444E+04	3.516E+04
55	3.261E+04	3.330E+04	3.400E+04
56	3.152E+04	3.220E+04	3.289E+04
57	3.047E+04	3.114E+04	3.182E+04
58	2.947E+04	3.013E+04	3.079E+04
59	2.850E+04	2.915E+04	2.980E+04
60	2.757E+04	2.820E+04	2.885E+04

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RESISTANCE (at 25°C)	100000 Ω	R-TOLERANCE (±)	1 %
B-VALUE (25/50°C)	3580 K	B-TOLERANCE (±)	1 %

T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)	T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
60	2.757E+04	2.820E+04	2.885E+04	110	6.391E+03	6.630E+03	6.877E+03
61	2.668E+04	2.730E+04	2.793E+04	111	6.227E+03	6.462E+03	6.704E+03
62	2.582E+04	2.643E+04	2.705E+04	112	6.069E+03	6.299E+03	6.537E+03
63	2.499E+04	2.558E+04	2.619E+04	113	5.915E+03	6.141E+03	6.374E+03
64	2.419E+04	2.478E+04	2.537E+04	114	5.766E+03	5.987E+03	6.216E+03
65	2.342E+04	2.400E+04	2.458E+04	115	5.621E+03	5.838E+03	6.063E+03
66	2.268E+04	2.324E+04	2.382E+04	116	5.480E+03	5.693E+03	5.914E+03
67	2.197E+04	2.252E+04	2.308E+04	117	5.343E+03	5.552E+03	5.769E+03
68	2.128E+04	2.182E+04	2.238E+04	118	5.210E+03	5.416E+03	5.628E+03
69	2.062E+04	2.115E+04	2.169E+04	119	5.081E+03	5.283E+03	5.491E+03
70	1.998E+04	2.050E+04	2.103E+04	120	4.956E+03	5.154E+03	5.358E+03
71	1.936E+04	1.987E+04	2.040E+04	121	4.834E+03	5.028E+03	5.229E+03
72	1.877E+04	1.927E+04	1.978E+04	122	4.716E+03	4.906E+03	5.103E+03
73	1.820E+04	1.869E+04	1.919E+04	123	4.601E+03	4.787E+03	4.981E+03
74	1.764E+04	1.813E+04	1.862E+04	124	4.489E+03	4.672E+03	4.862E+03
75	1.711E+04	1.758E+04	1.807E+04	125	4.380E+03	4.560E+03	4.747E+03
76	1.660E+04	1.706E+04	1.754E+04	126	4.275E+03	4.451E+03	4.634E+03
77	1.610E+04	1.656E+04	1.702E+04	127	4.172E+03	4.345E+03	4.525E+03
78	1.562E+04	1.607E+04	1.652E+04	128	4.073E+03	4.242E+03	4.419E+03
79	1.516E+04	1.560E+04	1.604E+04	129	3.976E+03	4.142E+03	4.316E+03
80	1.471E+04	1.514E+04	1.558E+04	130	3.881E+03	4.045E+03	4.215E+03
81	1.428E+04	1.470E+04	1.513E+04	131	3.790E+03	3.951E+03	4.118E+03
82	1.386E+04	1.428E+04	1.470E+04	132	3.701E+03	3.859E+03	4.023E+03
83	1.346E+04	1.386E+04	1.428E+04	133	3.614E+03	3.769E+03	3.931E+03
84	1.307E+04	1.347E+04	1.388E+04	134	3.530E+03	3.682E+03	3.841E+03
85	1.270E+04	1.308E+04	1.348E+04	135	3.448E+03	3.598E+03	3.753E+03
86	1.233E+04	1.271E+04	1.310E+04	136	3.368E+03	3.515E+03	3.668E+03
87	1.198E+04	1.235E+04	1.274E+04	137	3.291E+03	3.435E+03	3.585E+03
88	1.164E+04	1.201E+04	1.238E+04	138	3.215E+03	3.356E+03	3.504E+03
89	1.131E+04	1.167E+04	1.204E+04	139	3.141E+03	3.280E+03	3.425E+03
90	1.099E+04	1.135E+04	1.171E+04	140	3.069E+03	3.206E+03	3.348E+03
91	1.069E+04	1.103E+04	1.139E+04	141	2.999E+03	3.133E+03	3.272E+03
92	1.039E+04	1.073E+04	1.108E+04	142	2.931E+03	3.062E+03	3.199E+03
93	1.010E+04	1.043E+04	1.078E+04	143	2.864E+03	2.993E+03	3.128E+03
94	9.824E+03	1.015E+04	1.049E+04	144	2.799E+03	2.926E+03	3.058E+03
95	9.554E+03	9.874E+03	1.020E+04	145	2.736E+03	2.861E+03	2.990E+03
96	9.293E+03	9.607E+03	9.929E+03	146	2.675E+03	2.797E+03	2.924E+03
97	9.041E+03	9.348E+03	9.665E+03	147	2.615E+03	2.735E+03	2.860E+03
98	8.796E+03	9.097E+03	9.408E+03	148	2.556E+03	2.674E+03	2.798E+03
99	8.559E+03	8.855E+03	9.159E+03	149	2.500E+03	2.615E+03	2.736E+03
100	8.330E+03	8.620E+03	8.918E+03	150	2.444E+03	2.558E+03	2.677E+03
101	8.108E+03	8.392E+03	8.685E+03				
102	7.893E+03	8.171E+03	8.459E+03				
103	7.684E+03	7.957E+03	8.240E+03				
104	7.482E+03	7.750E+03	8.027E+03				
105	7.286E+03	7.549E+03	7.820E+03				
106	7.096E+03	7.354E+03	7.620E+03				
107	6.911E+03	7.164E+03	7.426E+03				
108	6.733E+03	6.981E+03	7.237E+03				
109	6.559E+03	6.802E+03	7.054E+03				
110	6.391E+03	6.630E+03	6.877E+03				