

## NTC THERMISTOR R-T CHARACTERISTICS

TYPE TD11-4H104F[T, B]

RESISTANCE(at25 )	100000	R-TOLERANCE( ± )	1 %
B-VALUE(25/50 )	4360 K	B-TOLERANCE( ± )	1 %

T( )	Rmin( )	Rnom( )	Rmax( )
-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( )	Rnom( )	Rmax( )
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

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TYPE TD11-4H104F [T,B]

RESISTANCE(at25 )	100000	R-TOLERANCE(±)	1 %
B-VALUE(25/50 )	4360 K	B-TOLERANCE(±)	1 %

T( )	Rmin( )	Rnom( )	Rmax( )
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( )	Rnom( )	Rmax( )
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	1.677E+03	1.765E+03
142	1.554E+03	1.635E+03	1.721E+03
143	1.515E+03	1.595E+03	1.679E+03
144	1.478E+03	1.556E+03	1.639E+03
145	1.441E+03	1.518E+03	1.599E+03
146	1.406E+03	1.481E+03	1.561E+03
147	1.372E+03	1.446E+03	1.524E+03
148	1.339E+03	1.411E+03	1.487E+03
149	1.306E+03	1.377E+03	1.452E+03
150	1.275E+03	1.345E+03	1.418E+03