

## NTC THERMISTOR R-T CHARACTERISTICS

TYPE TH11-3K333F [T, B]

RESISTANCE (at25°C)	33000 Ω	R-TOLERANCE (±)	1 %
B-VALUE (25/50°C)	3480 K	B-TOLERANCE (±)	1 %

T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
-40	6.660E+005	6.950E+005	7.252E+005
-39	6.289E+005	6.558E+005	6.838E+005
-38	5.940E+005	6.191E+005	6.451E+005
-37	5.613E+005	5.846E+005	6.089E+005
-36	5.306E+005	5.523E+005	5.749E+005
-35	5.018E+005	5.220E+005	5.430E+005
-34	4.748E+005	4.936E+005	5.131E+005
-33	4.493E+005	4.668E+005	4.850E+005
-32	4.254E+005	4.417E+005	4.586E+005
-31	4.029E+005	4.181E+005	4.338E+005
-30	3.817E+005	3.959E+005	4.106E+005
-29	3.618E+005	3.750E+005	3.887E+005
-28	3.430E+005	3.554E+005	3.681E+005
-27	3.254E+005	3.369E+005	3.487E+005
-26	3.087E+005	3.195E+005	3.305E+005
-25	2.930E+005	3.031E+005	3.134E+005
-24	2.783E+005	2.876E+005	2.972E+005
-23	2.643E+005	2.730E+005	2.820E+005
-22	2.511E+005	2.593E+005	2.677E+005
-21	2.387E+005	2.463E+005	2.541E+005
-20	2.270E+005	2.341E+005	2.414E+005
-19	2.159E+005	2.225E+005	2.293E+005
-18	2.054E+005	2.115E+005	2.179E+005
-17	1.954E+005	2.012E+005	2.072E+005
-16	1.861E+005	1.915E+005	1.970E+005
-15	1.772E+005	1.823E+005	1.875E+005
-14	1.689E+005	1.736E+005	1.784E+005
-13	1.610E+005	1.654E+005	1.699E+005
-12	1.535E+005	1.576E+005	1.619E+005
-11	1.464E+005	1.503E+005	1.542E+005
-10	1.397E+005	1.433E+005	1.470E+005
-9	1.333E+005	1.367E+005	1.402E+005
-8	1.273E+005	1.305E+005	1.337E+005
-7	1.216E+005	1.246E+005	1.276E+005
-6	1.162E+005	1.190E+005	1.218E+005
-5	1.111E+005	1.137E+005	1.163E+005
-4	1.062E+005	1.086E+005	1.111E+005
-3	1.016E+005	1.039E+005	1.062E+005
-2	9.719E+004	9.932E+004	1.015E+005
-1	9.301E+004	9.500E+004	9.703E+004
0	8.904E+004	9.091E+004	9.280E+004

T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
0	8.904E+004	9.091E+004	9.280E+004
1	8.526E+004	8.701E+004	8.878E+004
2	8.167E+004	8.330E+004	8.496E+004
3	7.825E+004	7.978E+004	8.133E+004
4	7.500E+004	7.643E+004	7.788E+004
5	7.190E+004	7.324E+004	7.460E+004
6	6.896E+004	7.021E+004	7.147E+004
7	6.615E+004	6.732E+004	6.850E+004
8	6.347E+004	6.456E+004	6.567E+004
9	6.092E+004	6.194E+004	6.298E+004
10	5.848E+004	5.944E+004	6.041E+004
11	5.616E+004	5.705E+004	5.796E+004
12	5.394E+004	5.478E+004	5.562E+004
13	5.182E+004	5.260E+004	5.339E+004
14	4.981E+004	5.053E+004	5.127E+004
15	4.788E+004	4.856E+004	4.924E+004
16	4.603E+004	4.667E+004	4.731E+004
17	4.427E+004	4.487E+004	4.546E+004
18	4.259E+004	4.314E+004	4.370E+004
19	4.098E+004	4.150E+004	4.201E+004
20	3.944E+004	3.992E+004	4.040E+004
21	3.797E+004	3.841E+004	3.886E+004
22	3.656E+004	3.697E+004	3.738E+004
23	3.521E+004	3.559E+004	3.597E+004
24	3.391E+004	3.427E+004	3.462E+004
25	3.267E+004	3.300E+004	3.333E+004
26	3.146E+004	3.179E+004	3.212E+004
27	3.029E+004	3.062E+004	3.095E+004
28	2.918E+004	2.950E+004	2.983E+004
29	2.810E+004	2.843E+004	2.876E+004
30	2.708E+004	2.740E+004	2.773E+004
31	2.609E+004	2.642E+004	2.674E+004
32	2.515E+004	2.547E+004	2.579E+004
33	2.424E+004	2.456E+004	2.488E+004
34	2.336E+004	2.368E+004	2.400E+004
35	2.252E+004	2.284E+004	2.315E+004
36	2.172E+004	2.203E+004	2.234E+004
37	2.094E+004	2.125E+004	2.156E+004
38	2.019E+004	2.050E+004	2.080E+004
39	1.948E+004	1.978E+004	2.008E+004
40	1.878E+004	1.908E+004	1.938E+004

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RESISTANCE (at25°C)	33000 Ω	R-TOLERANCE (±)	1 %
B-VALUE (25/50°C)	3480 K	B-TOLERANCE (±)	1 %

T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
40	1.878E+004	1.908E+004	1.938E+004
41	1.811E+004	1.841E+004	1.870E+004
42	1.747E+004	1.776E+004	1.805E+004
43	1.685E+004	1.713E+004	1.742E+004
44	1.625E+004	1.653E+004	1.682E+004
45	1.568E+004	1.596E+004	1.623E+004
46	1.513E+004	1.540E+004	1.567E+004
47	1.460E+004	1.486E+004	1.513E+004
48	1.409E+004	1.435E+004	1.461E+004
49	1.360E+004	1.385E+004	1.411E+004
50	1.312E+004	1.338E+004	1.363E+004
51	1.267E+004	1.292E+004	1.317E+004
52	1.223E+004	1.248E+004	1.272E+004
53	1.181E+004	1.205E+004	1.229E+004
54	1.141E+004	1.164E+004	1.188E+004
55	1.102E+004	1.125E+004	1.148E+004
56	1.064E+004	1.087E+004	1.110E+004
57	1.028E+004	1.051E+004	1.073E+004
58	9.937E+003	1.015E+004	1.038E+004
59	9.604E+003	9.817E+003	1.003E+004
60	9.283E+003	9.493E+003	9.706E+003
61	8.976E+003	9.182E+003	9.391E+003
62	8.680E+003	8.882E+003	9.087E+003
63	8.396E+003	8.593E+003	8.794E+003
64	8.121E+003	8.315E+003	8.512E+003
65	7.857E+003	8.047E+003	8.241E+003
66	7.603E+003	7.789E+003	7.979E+003
67	7.359E+003	7.541E+003	7.727E+003
68	7.123E+003	7.302E+003	7.484E+003
69	6.896E+003	7.071E+003	7.250E+003
70	6.677E+003	6.849E+003	7.024E+003
71	6.468E+003	6.636E+003	6.808E+003
72	6.266E+003	6.431E+003	6.599E+003
73	6.071E+003	6.233E+003	6.398E+003
74	5.884E+003	6.042E+003	6.203E+003
75	5.702E+003	5.857E+003	6.016E+003
76	5.527E+003	5.679E+003	5.834E+003
77	5.358E+003	5.507E+003	5.659E+003
78	5.195E+003	5.341E+003	5.490E+003
79	5.037E+003	5.180E+003	5.326E+003
80	4.885E+003	5.025E+003	5.168E+003

T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
80	4.885E+003	5.025E+003	5.168E+003
81	4.738E+003	4.875E+003	5.015E+003
82	4.596E+003	4.730E+003	4.867E+003
83	4.458E+003	4.590E+003	4.724E+003
84	4.326E+003	4.454E+003	4.586E+003
85	4.197E+003	4.324E+003	4.453E+003
86	4.074E+003	4.197E+003	4.324E+003
87	3.954E+003	4.075E+003	4.200E+003
88	3.839E+003	3.957E+003	4.079E+003
89	3.727E+003	3.843E+003	3.963E+003
90	3.620E+003	3.733E+003	3.850E+003
91	3.516E+003	3.627E+003	3.742E+003
92	3.415E+003	3.525E+003	3.637E+003
93	3.318E+003	3.425E+003	3.535E+003
94	3.224E+003	3.329E+003	3.437E+003
95	3.133E+003	3.236E+003	3.342E+003
96	3.045E+003	3.146E+003	3.250E+003
97	2.960E+003	3.059E+003	3.161E+003
98	2.878E+003	2.975E+003	3.074E+003
99	2.798E+003	2.893E+003	2.991E+003
100	2.721E+003	2.814E+003	2.910E+003
101	2.647E+003	2.737E+003	2.831E+003
102	2.574E+003	2.663E+003	2.755E+003
103	2.504E+003	2.591E+003	2.681E+003
104	2.436E+003	2.522E+003	2.610E+003
105	2.371E+003	2.454E+003	2.541E+003
106	2.307E+003	2.389E+003	2.474E+003
107	2.245E+003	2.326E+003	2.409E+003
108	2.186E+003	2.265E+003	2.346E+003
109	2.128E+003	2.205E+003	2.285E+003
110	2.072E+003	2.147E+003	2.226E+003
111	2.017E+003	2.092E+003	2.168E+003
112	1.965E+003	2.037E+003	2.113E+003
113	1.914E+003	1.985E+003	2.059E+003
114	1.864E+003	1.934E+003	2.007E+003
115	1.816E+003	1.885E+003	1.956E+003
116	1.769E+003	1.837E+003	1.906E+003
117	1.724E+003	1.790E+003	1.858E+003
118	1.680E+003	1.745E+003	1.812E+003
119	1.638E+003	1.701E+003	1.767E+003
120	1.596E+003	1.659E+003	1.723E+003
121	1.556E+003	1.617E+003	1.680E+003
122	1.517E+003	1.577E+003	1.639E+003
123	1.479E+003	1.538E+003	1.599E+003
124	1.443E+003	1.500E+003	1.560E+003
125	1.407E+003	1.463E+003	1.522E+003