

## NTC THERMISTOR R-T CHARACTERISTICS

TYPE TN11-3K333J [T, B]

RESISTANCE (at25°C)	33000 Ω	R-TOLERANCE (±)	5 %
B-VALUE (25/50°C)	3480 K	B-TOLERANCE (±)	3 %

T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
-40	5.988E+005	6.950E+005	8.046E+005
-39	5.662E+005	6.558E+005	7.578E+005
-38	5.355E+005	6.191E+005	7.140E+005
-37	5.066E+005	5.846E+005	6.730E+005
-36	4.795E+005	5.523E+005	6.346E+005
-35	4.540E+005	5.220E+005	5.987E+005
-34	4.301E+005	4.936E+005	5.650E+005
-33	4.075E+005	4.668E+005	5.334E+005
-32	3.863E+005	4.417E+005	5.038E+005
-31	3.663E+005	4.181E+005	4.760E+005
-30	3.475E+005	3.959E+005	4.500E+005
-29	3.297E+005	3.750E+005	4.255E+005
-28	3.130E+005	3.554E+005	4.025E+005
-27	2.972E+005	3.369E+005	3.809E+005
-26	2.823E+005	3.195E+005	3.606E+005
-25	2.683E+005	3.031E+005	3.415E+005
-24	2.550E+005	2.876E+005	3.235E+005
-23	2.425E+005	2.730E+005	3.066E+005
-22	2.307E+005	2.593E+005	2.907E+005
-21	2.195E+005	2.463E+005	2.757E+005
-20	2.090E+005	2.341E+005	2.616E+005
-19	1.989E+005	2.225E+005	2.482E+005
-18	1.895E+005	2.115E+005	2.356E+005
-17	1.805E+005	2.012E+005	2.238E+005
-16	1.720E+005	1.915E+005	2.126E+005
-15	1.640E+005	1.823E+005	2.021E+005
-14	1.565E+005	1.736E+005	1.921E+005
-13	1.493E+005	1.654E+005	1.828E+005
-12	1.425E+005	1.576E+005	1.739E+005
-11	1.361E+005	1.503E+005	1.656E+005
-10	1.300E+005	1.433E+005	1.577E+005
-9	1.242E+005	1.367E+005	1.502E+005
-8	1.187E+005	1.305E+005	1.431E+005
-7	1.135E+005	1.246E+005	1.364E+005
-6	1.085E+005	1.190E+005	1.301E+005
-5	1.038E+005	1.137E+005	1.241E+005
-4	9.939E+004	1.086E+005	1.185E+005
-3	9.515E+004	1.039E+005	1.131E+005
-2	9.112E+004	9.932E+004	1.080E+005
-1	8.728E+004	9.500E+004	1.031E+005
0	8.364E+004	9.091E+004	9.856E+004

T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
0	8.364E+004	9.091E+004	9.856E+004
1	8.016E+004	8.701E+004	9.420E+004
2	7.686E+004	8.330E+004	9.007E+004
3	7.371E+004	7.978E+004	8.614E+004
4	7.071E+004	7.643E+004	8.241E+004
5	6.785E+004	7.324E+004	7.887E+004
6	6.513E+004	7.021E+004	7.550E+004
7	6.253E+004	6.732E+004	7.229E+004
8	6.005E+004	6.456E+004	6.924E+004
9	5.769E+004	6.194E+004	6.634E+004
10	5.543E+004	5.944E+004	6.358E+004
11	5.327E+004	5.705E+004	6.095E+004
12	5.121E+004	5.478E+004	5.844E+004
13	4.925E+004	5.260E+004	5.605E+004
14	4.737E+004	5.053E+004	5.378E+004
15	4.557E+004	4.856E+004	5.161E+004
16	4.386E+004	4.667E+004	4.954E+004
17	4.221E+004	4.487E+004	4.757E+004
18	4.064E+004	4.314E+004	4.568E+004
19	3.914E+004	4.150E+004	4.389E+004
20	3.770E+004	3.992E+004	4.217E+004
21	3.632E+004	3.841E+004	4.053E+004
22	3.500E+004	3.697E+004	3.896E+004
23	3.373E+004	3.559E+004	3.746E+004
24	3.252E+004	3.427E+004	3.602E+004
25	3.135E+004	3.300E+004	3.465E+004
26	3.016E+004	3.179E+004	3.341E+004
27	2.902E+004	3.062E+004	3.223E+004
28	2.793E+004	2.950E+004	3.109E+004
29	2.689E+004	2.843E+004	2.999E+004
30	2.588E+004	2.740E+004	2.894E+004
31	2.492E+004	2.642E+004	2.793E+004
32	2.400E+004	2.547E+004	2.696E+004
33	2.312E+004	2.456E+004	2.602E+004
34	2.227E+004	2.368E+004	2.512E+004
35	2.145E+004	2.284E+004	2.425E+004
36	2.067E+004	2.203E+004	2.342E+004
37	1.991E+004	2.125E+004	2.261E+004
38	1.919E+004	2.050E+004	2.184E+004
39	1.849E+004	1.978E+004	2.109E+004
40	1.782E+004	1.908E+004	2.037E+004

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T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
40	1.782E+004	1.908E+004	2.037E+004
41	1.718E+004	1.841E+004	1.967E+004
42	1.655E+004	1.776E+004	1.900E+004
43	1.596E+004	1.713E+004	1.835E+004
44	1.538E+004	1.653E+004	1.773E+004
45	1.483E+004	1.596E+004	1.713E+004
46	1.430E+004	1.540E+004	1.655E+004
47	1.378E+004	1.486E+004	1.599E+004
48	1.329E+004	1.435E+004	1.545E+004
49	1.282E+004	1.385E+004	1.493E+004
50	1.237E+004	1.338E+004	1.443E+004
51	1.193E+004	1.292E+004	1.395E+004
52	1.151E+004	1.248E+004	1.349E+004
53	1.111E+004	1.205E+004	1.304E+004
54	1.072E+004	1.164E+004	1.261E+004
55	1.035E+004	1.125E+004	1.219E+004
56	9.991E+003	1.087E+004	1.180E+004
57	9.647E+003	1.051E+004	1.141E+004
58	9.316E+003	1.015E+004	1.104E+004
59	8.998E+003	9.817E+003	1.068E+004
60	8.693E+003	9.493E+003	1.034E+004
61	8.400E+003	9.182E+003	1.001E+004
62	8.118E+003	8.882E+003	9.693E+003
63	7.847E+003	8.593E+003	9.387E+003
64	7.586E+003	8.315E+003	9.092E+003
65	7.335E+003	8.047E+003	8.807E+003
66	7.093E+003	7.789E+003	8.532E+003
67	6.861E+003	7.541E+003	8.268E+003
68	6.637E+003	7.302E+003	8.013E+003
69	6.422E+003	7.071E+003	7.767E+003
70	6.214E+003	6.849E+003	7.529E+003
71	6.016E+003	6.636E+003	7.302E+003
72	5.825E+003	6.431E+003	7.082E+003
73	5.641E+003	6.233E+003	6.870E+003
74	5.463E+003	6.042E+003	6.665E+003
75	5.291E+003	5.857E+003	6.467E+003
76	5.126E+003	5.679E+003	6.276E+003
77	4.966E+003	5.507E+003	6.091E+003
78	4.812E+003	5.341E+003	5.912E+003
79	4.664E+003	5.180E+003	5.739E+003
80	4.520E+003	5.025E+003	5.572E+003

T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
80	4.520E+003	5.025E+003	5.572E+003
81	4.382E+003	4.875E+003	5.410E+003
82	4.248E+003	4.730E+003	5.253E+003
83	4.118E+003	4.590E+003	5.102E+003
84	3.994E+003	4.454E+003	4.956E+003
85	3.873E+003	4.324E+003	4.814E+003
86	3.757E+003	4.197E+003	4.677E+003
87	3.645E+003	4.075E+003	4.545E+003
88	3.537E+003	3.957E+003	4.417E+003
89	3.432E+003	3.843E+003	4.293E+003
90	3.331E+003	3.733E+003	4.174E+003
91	3.234E+003	3.627E+003	4.058E+003
92	3.140E+003	3.525E+003	3.946E+003
93	3.049E+003	3.425E+003	3.838E+003
94	2.961E+003	3.329E+003	3.733E+003
95	2.876E+003	3.236E+003	3.632E+003
96	2.794E+003	3.146E+003	3.534E+003
97	2.715E+003	3.059E+003	3.438E+003
98	2.638E+003	2.975E+003	3.346E+003
99	2.564E+003	2.893E+003	3.257E+003
100	2.492E+003	2.814E+003	3.170E+003
101	2.422E+003	2.737E+003	3.086E+003
102	2.355E+003	2.663E+003	3.005E+003
103	2.289E+003	2.591E+003	2.926E+003
104	2.226E+003	2.522E+003	2.849E+003
105	2.165E+003	2.454E+003	2.775E+003
106	2.106E+003	2.389E+003	2.703E+003
107	2.049E+003	2.326E+003	2.634E+003
108	1.993E+003	2.265E+003	2.566E+003
109	1.940E+003	2.205E+003	2.501E+003
110	1.888E+003	2.147E+003	2.437E+003
111	1.837E+003	2.092E+003	2.375E+003
112	1.788E+003	2.037E+003	2.315E+003
113	1.741E+003	1.985E+003	2.257E+003
114	1.695E+003	1.934E+003	2.201E+003
115	1.651E+003	1.885E+003	2.146E+003
116	1.608E+003	1.837E+003	2.093E+003
117	1.566E+003	1.790E+003	2.041E+003
118	1.525E+003	1.745E+003	1.991E+003
119	1.486E+003	1.701E+003	1.943E+003
120	1.448E+003	1.659E+003	1.895E+003
121	1.411E+003	1.617E+003	1.849E+003
122	1.375E+003	1.577E+003	1.805E+003
123	1.340E+003	1.538E+003	1.761E+003
124	1.306E+003	1.500E+003	1.719E+003
125	1.273E+003	1.463E+003	1.678E+003