

## NTC THERMISTOR R-T CHARACTERISTICS

TYPE TN20-3T333J [T, B]

RESISTANCE (at25°C)	33000 Ω	R-TOLERANCE (±)	5 %
B-VALUE (25/50°C)	3800 K	B-TOLERANCE (±)	3 %

T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
-40	8.443E+005	9.887E+005	1.155E+006
-39	7.932E+005	9.269E+005	1.080E+006
-38	7.455E+005	8.694E+005	1.011E+006
-37	7.010E+005	8.158E+005	9.471E+005
-36	6.595E+005	7.659E+005	8.873E+005
-35	6.207E+005	7.194E+005	8.317E+005
-34	5.844E+005	6.760E+005	7.800E+005
-33	5.505E+005	6.355E+005	7.318E+005
-32	5.187E+005	5.977E+005	6.869E+005
-31	4.891E+005	5.624E+005	6.451E+005
-30	4.613E+005	5.294E+005	6.061E+005
-29	4.352E+005	4.986E+005	5.697E+005
-28	4.108E+005	4.697E+005	5.357E+005
-27	3.880E+005	4.427E+005	5.040E+005
-26	3.665E+005	4.175E+005	4.743E+005
-25	3.464E+005	3.938E+005	4.466E+005
-24	3.275E+005	3.716E+005	4.207E+005
-23	3.097E+005	3.508E+005	3.964E+005
-22	2.930E+005	3.313E+005	3.737E+005
-21	2.774E+005	3.131E+005	3.525E+005
-20	2.626E+005	2.959E+005	3.325E+005
-19	2.487E+005	2.797E+005	3.138E+005
-18	2.357E+005	2.646E+005	2.963E+005
-17	2.234E+005	2.504E+005	2.799E+005
-16	2.118E+005	2.370E+005	2.645E+005
-15	2.009E+005	2.244E+005	2.500E+005
-14	1.906E+005	2.126E+005	2.364E+005
-13	1.810E+005	2.014E+005	2.236E+005
-12	1.718E+005	1.909E+005	2.117E+005
-11	1.632E+005	1.811E+005	2.004E+005
-10	1.551E+005	1.718E+005	1.898E+005
-9	1.474E+005	1.630E+005	1.798E+005
-8	1.402E+005	1.547E+005	1.704E+005
-7	1.333E+005	1.469E+005	1.616E+005
-6	1.269E+005	1.396E+005	1.532E+005
-5	1.207E+005	1.326E+005	1.454E+005
-4	1.150E+005	1.261E+005	1.380E+005
-3	1.095E+005	1.199E+005	1.310E+005
-2	1.043E+005	1.141E+005	1.244E+005
-1	9.940E+004	1.085E+005	1.182E+005
0	9.475E+004	1.033E+005	1.123E+005

T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
0	9.475E+004	1.033E+005	1.123E+005
1	9.036E+004	9.835E+004	1.068E+005
2	8.619E+004	9.367E+004	1.016E+005
3	8.224E+004	8.924E+004	9.660E+004
4	7.849E+004	8.505E+004	9.193E+004
5	7.493E+004	8.107E+004	8.750E+004
6	7.156E+004	7.731E+004	8.331E+004
7	6.835E+004	7.374E+004	7.935E+004
8	6.531E+004	7.035E+004	7.560E+004
9	6.241E+004	6.714E+004	7.204E+004
10	5.967E+004	6.409E+004	6.867E+004
11	5.705E+004	6.120E+004	6.548E+004
12	5.457E+004	5.845E+004	6.245E+004
13	5.221E+004	5.584E+004	5.958E+004
14	4.996E+004	5.337E+004	5.686E+004
15	4.783E+004	5.101E+004	5.428E+004
16	4.579E+004	4.878E+004	5.183E+004
17	4.386E+004	4.666E+004	4.951E+004
18	4.202E+004	4.464E+004	4.731E+004
19	4.027E+004	4.272E+004	4.521E+004
20	3.860E+004	4.090E+004	4.322E+004
21	3.701E+004	3.916E+004	4.133E+004
22	3.549E+004	3.751E+004	3.953E+004
23	3.405E+004	3.593E+004	3.782E+004
24	3.267E+004	3.443E+004	3.620E+004
25	3.135E+004	3.300E+004	3.465E+004
26	3.002E+004	3.164E+004	3.326E+004
27	2.875E+004	3.034E+004	3.194E+004
28	2.754E+004	2.910E+004	3.067E+004
29	2.639E+004	2.792E+004	2.946E+004
30	2.529E+004	2.679E+004	2.831E+004
31	2.425E+004	2.571E+004	2.720E+004
32	2.325E+004	2.469E+004	2.615E+004
33	2.230E+004	2.371E+004	2.514E+004
34	2.139E+004	2.277E+004	2.418E+004
35	2.053E+004	2.188E+004	2.326E+004
36	1.970E+004	2.103E+004	2.238E+004
37	1.892E+004	2.021E+004	2.154E+004
38	1.817E+004	1.943E+004	2.073E+004
39	1.745E+004	1.868E+004	1.996E+004
40	1.676E+004	1.797E+004	1.922E+004

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RESISTANCE (at25°C)	33000 Ω	R-TOLERANCE (±)	5 %
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T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
40	1.676E+004	1.797E+004	1.922E+004
41	1.611E+004	1.729E+004	1.851E+004
42	1.548E+004	1.663E+004	1.783E+004
43	1.488E+004	1.601E+004	1.718E+004
44	1.431E+004	1.541E+004	1.655E+004
45	1.376E+004	1.483E+004	1.595E+004
46	1.323E+004	1.429E+004	1.538E+004
47	1.273E+004	1.376E+004	1.483E+004
48	1.225E+004	1.326E+004	1.430E+004
49	1.179E+004	1.277E+004	1.380E+004
50	1.135E+004	1.231E+004	1.331E+004
51	1.093E+004	1.187E+004	1.285E+004
52	1.053E+004	1.145E+004	1.241E+004
53	1.015E+004	1.104E+004	1.198E+004
54	9.779E+003	1.065E+004	1.157E+004
55	9.425E+003	1.027E+004	1.117E+004
56	9.086E+003	9.915E+003	1.079E+004
57	8.761E+003	9.571E+003	1.043E+004
58	8.449E+003	9.240E+003	1.008E+004
59	8.150E+003	8.922E+003	9.742E+003
60	7.863E+003	8.616E+003	9.418E+003
61	7.587E+003	8.322E+003	9.106E+003
62	7.323E+003	8.040E+003	8.806E+003
63	7.068E+003	7.769E+003	8.518E+003
64	6.824E+003	7.508E+003	8.240E+003
65	6.590E+003	7.258E+003	7.973E+003
66	6.365E+003	7.017E+003	7.716E+003
67	6.148E+003	6.785E+003	7.469E+003
68	5.941E+003	6.562E+003	7.230E+003
69	5.741E+003	6.348E+003	7.001E+003
70	5.549E+003	6.141E+003	6.780E+003
71	5.364E+003	5.942E+003	6.567E+003
72	5.186E+003	5.751E+003	6.361E+003
73	5.015E+003	5.567E+003	6.163E+003
74	4.851E+003	5.389E+003	5.973E+003
75	4.693E+003	5.219E+003	5.789E+003
76	4.541E+003	5.054E+003	5.612E+003
77	4.394E+003	4.896E+003	5.441E+003
78	4.253E+003	4.743E+003	5.276E+003
79	4.117E+003	4.596E+003	5.117E+003
80	3.987E+003	4.454E+003	4.964E+003

T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
80	3.987E+003	4.454E+003	4.964E+003
81	3.861E+003	4.317E+003	4.816E+003
82	3.740E+003	4.186E+003	4.673E+003
83	3.623E+003	4.059E+003	4.535E+003
84	3.510E+003	3.936E+003	4.402E+003
85	3.402E+003	3.818E+003	4.274E+003
86	3.297E+003	3.704E+003	4.150E+003
87	3.196E+003	3.594E+003	4.030E+003
88	3.099E+003	3.487E+003	3.914E+003
89	3.005E+003	3.384E+003	3.802E+003
90	2.914E+003	3.285E+003	3.694E+003
91	2.827E+003	3.189E+003	3.589E+003
92	2.743E+003	3.097E+003	3.488E+003
93	2.661E+003	3.007E+003	3.390E+003
94	2.582E+003	2.921E+003	3.295E+003
95	2.506E+003	2.837E+003	3.204E+003
96	2.433E+003	2.756E+003	3.115E+003
97	2.362E+003	2.678E+003	3.029E+003
98	2.294E+003	2.603E+003	2.946E+003
99	2.227E+003	2.530E+003	2.866E+003
100	2.163E+003	2.459E+003	2.788E+003
101	2.101E+003	2.391E+003	2.713E+003
102	2.042E+003	2.324E+003	2.640E+003
103	1.984E+003	2.260E+003	2.569E+003
104	1.928E+003	2.198E+003	2.501E+003
105	1.874E+003	2.138E+003	2.435E+003
106	1.821E+003	2.080E+003	2.370E+003
107	1.771E+003	2.024E+003	2.308E+003
108	1.722E+003	1.970E+003	2.248E+003
109	1.674E+003	1.917E+003	2.189E+003
110	1.628E+003	1.866E+003	2.132E+003
111	1.584E+003	1.816E+003	2.077E+003
112	1.541E+003	1.768E+003	2.024E+003
113	1.499E+003	1.722E+003	1.972E+003
114	1.459E+003	1.677E+003	1.922E+003
115	1.420E+003	1.633E+003	1.873E+003
116	1.382E+003	1.590E+003	1.826E+003
117	1.345E+003	1.549E+003	1.780E+003
118	1.309E+003	1.510E+003	1.736E+003
119	1.275E+003	1.471E+003	1.693E+003
120	1.242E+003	1.433E+003	1.651E+003
121	1.209E+003	1.397E+003	1.610E+003
122	1.178E+003	1.362E+003	1.570E+003
123	1.147E+003	1.327E+003	1.532E+003
124	1.118E+003	1.294E+003	1.495E+003
125	1.089E+003	1.262E+003	1.459E+003