

NTC THERMISTOR R-T CHARACTERISTICS

TYPE TN20-2V221J [T, B]

RESISTANCE (at25°C)	220 Ω	R-TOLERANCE (±)	5 %
B-VALUE (25/50°C)	2900 K	B-TOLERANCE (±)	3 %

T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
-40	2.684E+003	3.065E+003	3.491E+003
-39	2.555E+003	2.913E+003	3.313E+003
-38	2.434E+003	2.770E+003	3.145E+003
-37	2.319E+003	2.636E+003	2.988E+003
-36	2.211E+003	2.508E+003	2.839E+003
-35	2.108E+003	2.388E+003	2.699E+003
-34	2.011E+003	2.275E+003	2.567E+003
-33	1.919E+003	2.167E+003	2.442E+003
-32	1.832E+003	2.066E+003	2.324E+003
-31	1.749E+003	1.970E+003	2.213E+003
-30	1.671E+003	1.879E+003	2.107E+003
-29	1.597E+003	1.793E+003	2.008E+003
-28	1.526E+003	1.711E+003	1.914E+003
-27	1.459E+003	1.634E+003	1.824E+003
-26	1.396E+003	1.560E+003	1.740E+003
-25	1.336E+003	1.491E+003	1.660E+003
-24	1.278E+003	1.425E+003	1.585E+003
-23	1.224E+003	1.363E+003	1.513E+003
-22	1.173E+003	1.304E+003	1.446E+003
-21	1.124E+003	1.247E+003	1.381E+003
-20	1.077E+003	1.194E+003	1.320E+003
-19	1.033E+003	1.143E+003	1.263E+003
-18	9.906E+002	1.095E+003	1.208E+003
-17	9.504E+002	1.049E+003	1.156E+003
-16	9.121E+002	1.006E+003	1.106E+003
-15	8.756E+002	9.644E+002	1.059E+003
-14	8.408E+002	9.248E+002	1.015E+003
-13	8.076E+002	8.872E+002	9.721E+002
-12	7.760E+002	8.513E+002	9.316E+002
-11	7.457E+002	8.171E+002	8.930E+002
-10	7.169E+002	7.845E+002	8.563E+002
-9	6.893E+002	7.534E+002	8.213E+002
-8	6.630E+002	7.237E+002	7.880E+002
-7	6.379E+002	6.954E+002	7.563E+002
-6	6.138E+002	6.684E+002	7.260E+002
-5	5.908E+002	6.426E+002	6.971E+002
-4	5.688E+002	6.179E+002	6.695E+002
-3	5.478E+002	5.943E+002	6.432E+002
-2	5.276E+002	5.718E+002	6.181E+002
-1	5.084E+002	5.502E+002	5.941E+002
0	4.899E+002	5.296E+002	5.712E+002

T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
0	4.899E+002	5.296E+002	5.712E+002
1	4.722E+002	5.099E+002	5.493E+002
2	4.553E+002	4.910E+002	5.283E+002
3	4.390E+002	4.730E+002	5.083E+002
4	4.235E+002	4.557E+002	4.892E+002
5	4.086E+002	4.392E+002	4.709E+002
6	3.943E+002	4.234E+002	4.534E+002
7	3.806E+002	4.082E+002	4.367E+002
8	3.674E+002	3.937E+002	4.207E+002
9	3.548E+002	3.798E+002	4.054E+002
10	3.427E+002	3.664E+002	3.907E+002
11	3.311E+002	3.536E+002	3.767E+002
12	3.200E+002	3.413E+002	3.632E+002
13	3.093E+002	3.296E+002	3.503E+002
14	2.990E+002	3.183E+002	3.380E+002
15	2.891E+002	3.075E+002	3.261E+002
16	2.796E+002	2.970E+002	3.147E+002
17	2.705E+002	2.871E+002	3.039E+002
18	2.618E+002	2.775E+002	2.934E+002
19	2.533E+002	2.683E+002	2.834E+002
20	2.452E+002	2.594E+002	2.737E+002
21	2.374E+002	2.509E+002	2.645E+002
22	2.299E+002	2.427E+002	2.556E+002
23	2.227E+002	2.348E+002	2.471E+002
24	2.157E+002	2.273E+002	2.389E+002
25	2.090E+002	2.200E+002	2.310E+002
26	2.021E+002	2.130E+002	2.239E+002
27	1.956E+002	2.063E+002	2.170E+002
28	1.892E+002	1.998E+002	2.104E+002
29	1.831E+002	1.935E+002	2.040E+002
30	1.773E+002	1.875E+002	1.978E+002
31	1.716E+002	1.817E+002	1.919E+002
32	1.662E+002	1.761E+002	1.862E+002
33	1.610E+002	1.708E+002	1.807E+002
34	1.560E+002	1.656E+002	1.754E+002
35	1.511E+002	1.606E+002	1.702E+002
36	1.465E+002	1.558E+002	1.653E+002
37	1.420E+002	1.511E+002	1.605E+002
38	1.377E+002	1.467E+002	1.559E+002
39	1.335E+002	1.424E+002	1.514E+002
40	1.295E+002	1.382E+002	1.471E+002

NTC THERMISTOR R-T CHARACTERISTICS

TYPE TN20-2V221J [T, B]

RESISTANCE (at25°C)	220 Ω	R-TOLERANCE (±)	5 %
B-VALUE (25/50°C)	2900 K	B-TOLERANCE (±)	3 %

T (°C)	R _{min} (Ω)	R _{nom} (Ω)	R _{max} (Ω)
40	1.295E+002	1.382E+002	1.471E+002
41	1.256E+002	1.342E+002	1.430E+002
42	1.218E+002	1.303E+002	1.390E+002
43	1.182E+002	1.265E+002	1.351E+002
44	1.148E+002	1.229E+002	1.314E+002
45	1.114E+002	1.194E+002	1.277E+002
46	1.082E+002	1.161E+002	1.242E+002
47	1.050E+002	1.128E+002	1.208E+002
48	1.020E+002	1.097E+002	1.176E+002
49	9.910E+001	1.066E+002	1.144E+002
50	9.628E+001	1.037E+002	1.113E+002
51	9.356E+001	1.008E+002	1.084E+002
52	9.093E+001	9.807E+001	1.055E+002
53	8.840E+001	9.541E+001	1.027E+002
54	8.594E+001	9.283E+001	1.000E+002
55	8.357E+001	9.034E+001	9.743E+001
56	8.127E+001	8.794E+001	9.491E+001
57	7.906E+001	8.560E+001	9.246E+001
58	7.691E+001	8.335E+001	9.010E+001
59	7.483E+001	8.116E+001	8.780E+001
60	7.282E+001	7.904E+001	8.558E+001
61	7.088E+001	7.699E+001	8.342E+001
62	6.900E+001	7.501E+001	8.133E+001
63	6.717E+001	7.308E+001	7.931E+001
64	6.541E+001	7.122E+001	7.734E+001
65	6.370E+001	6.941E+001	7.544E+001
66	6.205E+001	6.766E+001	7.359E+001
67	6.045E+001	6.596E+001	7.180E+001
68	5.889E+001	6.432E+001	7.006E+001
69	5.739E+001	6.272E+001	6.837E+001
70	5.593E+001	6.117E+001	6.674E+001
71	5.452E+001	5.967E+001	6.515E+001
72	5.315E+001	5.822E+001	6.361E+001
73	5.183E+001	5.681E+001	6.211E+001
74	5.054E+001	5.544E+001	6.066E+001
75	4.929E+001	5.411E+001	5.925E+001
76	4.808E+001	5.282E+001	5.787E+001
77	4.691E+001	5.156E+001	5.654E+001
78	4.577E+001	5.035E+001	5.524E+001
79	4.466E+001	4.916E+001	5.398E+001
80	4.359E+001	4.801E+001	5.276E+001

T (°C)	R _{min} (Ω)	R _{nom} (Ω)	R _{max} (Ω)
80	4.359E+001	4.801E+001	5.276E+001
81	4.254E+001	4.689E+001	5.156E+001
82	4.153E+001	4.581E+001	5.041E+001
83	4.054E+001	4.475E+001	4.928E+001
84	3.959E+001	4.373E+001	4.818E+001
85	3.866E+001	4.273E+001	4.711E+001
86	3.775E+001	4.176E+001	4.607E+001
87	3.688E+001	4.082E+001	4.506E+001
88	3.602E+001	3.990E+001	4.408E+001
89	3.519E+001	3.901E+001	4.313E+001
90	3.439E+001	3.814E+001	4.219E+001
91	3.361E+001	3.730E+001	4.129E+001
92	3.284E+001	3.647E+001	4.040E+001
93	3.210E+001	3.568E+001	3.955E+001
94	3.138E+001	3.490E+001	3.871E+001
95	3.068E+001	3.414E+001	3.789E+001
96	3.000E+001	3.340E+001	3.710E+001
97	2.934E+001	3.269E+001	3.633E+001
98	2.869E+001	3.199E+001	3.557E+001
99	2.807E+001	3.131E+001	3.484E+001
100	2.745E+001	3.065E+001	3.412E+001
101	2.686E+001	3.000E+001	3.342E+001
102	2.628E+001	2.937E+001	3.274E+001
103	2.572E+001	2.876E+001	3.208E+001
104	2.517E+001	2.816E+001	3.143E+001
105	2.463E+001	2.758E+001	3.080E+001
106	2.411E+001	2.701E+001	3.019E+001
107	2.360E+001	2.646E+001	2.959E+001
108	2.311E+001	2.592E+001	2.900E+001
109	2.263E+001	2.540E+001	2.843E+001
110	2.216E+001	2.488E+001	2.788E+001
111	2.170E+001	2.438E+001	2.733E+001
112	2.125E+001	2.390E+001	2.680E+001
113	2.082E+001	2.342E+001	2.628E+001
114	2.040E+001	2.296E+001	2.578E+001
115	1.998E+001	2.251E+001	2.529E+001
116	1.958E+001	2.207E+001	2.481E+001
117	1.919E+001	2.164E+001	2.433E+001
118	1.880E+001	2.121E+001	2.388E+001
119	1.843E+001	2.080E+001	2.343E+001
120	1.806E+001	2.040E+001	2.299E+001
121	1.771E+001	2.001E+001	2.256E+001
122	1.736E+001	1.963E+001	2.214E+001
123	1.702E+001	1.926E+001	2.174E+001
124	1.669E+001	1.890E+001	2.134E+001
125	1.637E+001	1.854E+001	2.095E+001