

NTC THERMISTOR R-T CHARACTERISTICS

TYPE TN20-3S223J [T, B]

RESISTANCE (at25°C)	22000 Ω	R-TOLERANCE (±)	5 %
B-VALUE (25/50°C)	3750 K	B-TOLERANCE (±)	3 %

T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
-40	5.374E+005	6.285E+005	7.331E+005
-39	5.054E+005	5.898E+005	6.866E+005
-38	4.755E+005	5.538E+005	6.433E+005
-37	4.476E+005	5.202E+005	6.031E+005
-36	4.215E+005	4.889E+005	5.657E+005
-35	3.971E+005	4.597E+005	5.308E+005
-34	3.743E+005	4.324E+005	4.983E+005
-33	3.529E+005	4.069E+005	4.681E+005
-32	3.329E+005	3.831E+005	4.398E+005
-31	3.142E+005	3.609E+005	4.135E+005
-30	2.966E+005	3.400E+005	3.889E+005
-29	2.802E+005	3.206E+005	3.659E+005
-28	2.647E+005	3.024E+005	3.445E+005
-27	2.503E+005	2.853E+005	3.244E+005
-26	2.367E+005	2.693E+005	3.056E+005
-25	2.239E+005	2.543E+005	2.881E+005
-24	2.119E+005	2.402E+005	2.716E+005
-23	2.005E+005	2.270E+005	2.562E+005
-22	1.899E+005	2.145E+005	2.417E+005
-21	1.799E+005	2.029E+005	2.282E+005
-20	1.705E+005	1.919E+005	2.155E+005
-19	1.616E+005	1.816E+005	2.036E+005
-18	1.533E+005	1.719E+005	1.924E+005
-17	1.454E+005	1.628E+005	1.818E+005
-16	1.379E+005	1.542E+005	1.720E+005
-15	1.309E+005	1.461E+005	1.627E+005
-14	1.243E+005	1.385E+005	1.540E+005
-13	1.181E+005	1.314E+005	1.458E+005
-12	1.122E+005	1.246E+005	1.381E+005
-11	1.067E+005	1.183E+005	1.308E+005
-10	1.015E+005	1.123E+005	1.240E+005
-9	9.651E+004	1.066E+005	1.175E+005
-8	9.183E+004	1.013E+005	1.115E+005
-7	8.741E+004	9.628E+004	1.058E+005
-6	8.322E+004	9.152E+004	1.004E+005
-5	7.926E+004	8.703E+004	9.532E+004
-4	7.551E+004	8.278E+004	9.053E+004
-3	7.196E+004	7.877E+004	8.600E+004
-2	6.860E+004	7.497E+004	8.173E+004
-1	6.541E+004	7.138E+004	7.770E+004
0	6.239E+004	6.798E+004	7.388E+004

T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
0	6.239E+004	6.798E+004	7.388E+004
1	5.952E+004	6.476E+004	7.028E+004
2	5.680E+004	6.171E+004	6.687E+004
3	5.423E+004	5.882E+004	6.365E+004
4	5.178E+004	5.609E+004	6.060E+004
5	4.946E+004	5.349E+004	5.771E+004
6	4.725E+004	5.104E+004	5.498E+004
7	4.516E+004	4.870E+004	5.239E+004
8	4.317E+004	4.649E+004	4.994E+004
9	4.128E+004	4.439E+004	4.762E+004
10	3.949E+004	4.240E+004	4.542E+004
11	3.778E+004	4.051E+004	4.334E+004
12	3.615E+004	3.872E+004	4.136E+004
13	3.461E+004	3.701E+004	3.948E+004
14	3.314E+004	3.539E+004	3.770E+004
15	3.174E+004	3.385E+004	3.601E+004
16	3.040E+004	3.238E+004	3.440E+004
17	2.913E+004	3.099E+004	3.288E+004
18	2.792E+004	2.966E+004	3.143E+004
19	2.677E+004	2.840E+004	3.005E+004
20	2.567E+004	2.720E+004	2.874E+004
21	2.463E+004	2.606E+004	2.750E+004
22	2.363E+004	2.497E+004	2.632E+004
23	2.268E+004	2.393E+004	2.519E+004
24	2.177E+004	2.294E+004	2.412E+004
25	2.090E+004	2.200E+004	2.310E+004
26	2.002E+004	2.110E+004	2.218E+004
27	1.918E+004	2.025E+004	2.131E+004
28	1.839E+004	1.943E+004	2.048E+004
29	1.763E+004	1.865E+004	1.968E+004
30	1.690E+004	1.790E+004	1.892E+004
31	1.621E+004	1.719E+004	1.819E+004
32	1.555E+004	1.652E+004	1.749E+004
33	1.493E+004	1.587E+004	1.683E+004
34	1.433E+004	1.525E+004	1.619E+004
35	1.376E+004	1.466E+004	1.558E+004
36	1.321E+004	1.409E+004	1.500E+004
37	1.269E+004	1.355E+004	1.444E+004
38	1.219E+004	1.304E+004	1.391E+004
39	1.172E+004	1.254E+004	1.339E+004
40	1.126E+004	1.207E+004	1.290E+004

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T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
40	1.126E+004	1.207E+004	1.290E+004
41	1.083E+004	1.162E+004	1.243E+004
42	1.041E+004	1.118E+004	1.198E+004
43	1.001E+004	1.077E+004	1.155E+004
44	9.633E+003	1.037E+004	1.114E+004
45	9.269E+003	9.991E+003	1.074E+004
46	8.921E+003	9.627E+003	1.036E+004
47	8.588E+003	9.278E+003	9.997E+003
48	8.269E+003	8.943E+003	9.647E+003
49	7.964E+003	8.622E+003	9.311E+003
50	7.672E+003	8.314E+003	8.989E+003
51	7.391E+003	8.019E+003	8.679E+003
52	7.123E+003	7.736E+003	8.382E+003
53	6.865E+003	7.465E+003	8.096E+003
54	6.619E+003	7.204E+003	7.821E+003
55	6.382E+003	6.954E+003	7.558E+003
56	6.155E+003	6.713E+003	7.304E+003
57	5.938E+003	6.483E+003	7.061E+003
58	5.729E+003	6.261E+003	6.826E+003
59	5.528E+003	6.049E+003	6.601E+003
60	5.336E+003	5.844E+003	6.385E+003
61	5.152E+003	5.648E+003	6.176E+003
62	4.975E+003	5.459E+003	5.976E+003
63	4.804E+003	5.278E+003	5.783E+003
64	4.641E+003	5.103E+003	5.597E+003
65	4.484E+003	4.935E+003	5.419E+003
66	4.333E+003	4.774E+003	5.247E+003
67	4.188E+003	4.619E+003	5.081E+003
68	4.049E+003	4.469E+003	4.921E+003
69	3.915E+003	4.325E+003	4.768E+003
70	3.786E+003	4.187E+003	4.619E+003
71	3.662E+003	4.054E+003	4.477E+003
72	3.542E+003	3.925E+003	4.339E+003
73	3.427E+003	3.802E+003	4.206E+003
74	3.317E+003	3.683E+003	4.078E+003
75	3.211E+003	3.568E+003	3.955E+003
76	3.108E+003	3.457E+003	3.836E+003
77	3.009E+003	3.350E+003	3.721E+003
78	2.914E+003	3.248E+003	3.610E+003
79	2.823E+003	3.148E+003	3.503E+003
80	2.734E+003	3.053E+003	3.399E+003

T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
80	2.734E+003	3.053E+003	3.399E+003
81	2.649E+003	2.960E+003	3.299E+003
82	2.567E+003	2.871E+003	3.203E+003
83	2.488E+003	2.785E+003	3.110E+003
84	2.412E+003	2.702E+003	3.020E+003
85	2.338E+003	2.622E+003	2.933E+003
86	2.267E+003	2.545E+003	2.849E+003
87	2.199E+003	2.470E+003	2.768E+003
88	2.133E+003	2.398E+003	2.689E+003
89	2.069E+003	2.328E+003	2.613E+003
90	2.008E+003	2.261E+003	2.540E+003
91	1.948E+003	2.196E+003	2.469E+003
92	1.891E+003	2.133E+003	2.400E+003
93	1.836E+003	2.073E+003	2.334E+003
94	1.782E+003	2.014E+003	2.270E+003
95	1.731E+003	1.957E+003	2.208E+003
96	1.681E+003	1.902E+003	2.148E+003
97	1.632E+003	1.849E+003	2.090E+003
98	1.586E+003	1.798E+003	2.033E+003
99	1.541E+003	1.748E+003	1.979E+003
100	1.497E+003	1.700E+003	1.926E+003
101	1.455E+003	1.654E+003	1.875E+003
102	1.414E+003	1.608E+003	1.825E+003
103	1.375E+003	1.565E+003	1.777E+003
104	1.337E+003	1.523E+003	1.730E+003
105	1.300E+003	1.482E+003	1.685E+003
106	1.264E+003	1.442E+003	1.641E+003
107	1.229E+003	1.404E+003	1.599E+003
108	1.196E+003	1.367E+003	1.558E+003
109	1.163E+003	1.331E+003	1.518E+003
110	1.132E+003	1.296E+003	1.479E+003
111	1.102E+003	1.262E+003	1.442E+003
112	1.072E+003	1.229E+003	1.406E+003
113	1.044E+003	1.198E+003	1.370E+003
114	1.016E+003	1.167E+003	1.336E+003
115	9.897E+002	1.137E+003	1.303E+003
116	9.638E+002	1.108E+003	1.271E+003
117	9.387E+002	1.080E+003	1.240E+003
118	9.144E+002	1.053E+003	1.209E+003
119	8.908E+002	1.026E+003	1.180E+003
120	8.679E+002	1.001E+003	1.151E+003
121	8.457E+002	9.759E+002	1.123E+003
122	8.242E+002	9.517E+002	1.096E+003
123	8.033E+002	9.283E+002	1.070E+003
124	7.830E+002	9.055E+002	1.045E+003
125	7.633E+002	8.834E+002	1.020E+003