

NTC THERMISTOR R-T CHARACTERISTICS

TYPE TN20-3W503J [T, B]

RESISTANCE (at25°C)	50000 Ω	R-TOLERANCE (±)	5 %
B-VALUE (25/50°C)	3950 K	B-TOLERANCE (±)	3 %

T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
-40	1.173E+006	1.380E+006	1.618E+006
-39	1.105E+006	1.297E+006	1.518E+006
-38	1.041E+006	1.219E+006	1.424E+006
-37	9.816E+005	1.147E+006	1.337E+006
-36	9.258E+005	1.079E+006	1.255E+006
-35	8.734E+005	1.016E+006	1.179E+006
-34	8.244E+005	9.572E+005	1.109E+006
-33	7.785E+005	9.020E+005	1.043E+006
-32	7.354E+005	8.503E+005	9.808E+005
-31	6.949E+005	8.019E+005	9.231E+005
-30	6.570E+005	7.566E+005	8.692E+005
-29	6.213E+005	7.141E+005	8.187E+005
-28	5.878E+005	6.742E+005	7.715E+005
-27	5.563E+005	6.369E+005	7.273E+005
-26	5.267E+005	6.018E+005	6.859E+005
-25	4.988E+005	5.689E+005	6.471E+005
-24	4.726E+005	5.380E+005	6.108E+005
-23	4.480E+005	5.089E+005	5.767E+005
-22	4.247E+005	4.816E+005	5.447E+005
-21	4.028E+005	4.559E+005	5.147E+005
-20	3.822E+005	4.318E+005	4.866E+005
-19	3.627E+005	4.090E+005	4.601E+005
-18	3.444E+005	3.876E+005	4.352E+005
-17	3.270E+005	3.674E+005	4.118E+005
-16	3.107E+005	3.484E+005	3.898E+005
-15	2.952E+005	3.305E+005	3.691E+005
-14	2.807E+005	3.137E+005	3.496E+005
-13	2.669E+005	2.977E+005	3.313E+005
-12	2.539E+005	2.827E+005	3.141E+005
-11	2.416E+005	2.686E+005	2.978E+005
-10	2.300E+005	2.552E+005	2.825E+005
-9	2.189E+005	2.425E+005	2.680E+005
-8	2.085E+005	2.306E+005	2.544E+005
-7	1.986E+005	2.193E+005	2.415E+005
-6	1.893E+005	2.086E+005	2.294E+005
-5	1.804E+005	1.985E+005	2.179E+005
-4	1.720E+005	1.890E+005	2.071E+005
-3	1.641E+005	1.800E+005	1.969E+005
-2	1.565E+005	1.714E+005	1.872E+005
-1	1.494E+005	1.633E+005	1.781E+005
0	1.426E+005	1.556E+005	1.695E+005

T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
0	1.426E+005	1.556E+005	1.695E+005
1	1.361E+005	1.484E+005	1.613E+005
2	1.300E+005	1.415E+005	1.536E+005
3	1.242E+005	1.349E+005	1.462E+005
4	1.187E+005	1.287E+005	1.393E+005
5	1.134E+005	1.228E+005	1.327E+005
6	1.084E+005	1.172E+005	1.265E+005
7	1.036E+005	1.119E+005	1.206E+005
8	9.911E+004	1.069E+005	1.149E+005
9	9.480E+004	1.021E+005	1.096E+005
10	9.069E+004	9.749E+004	1.045E+005
11	8.679E+004	9.316E+004	9.975E+004
12	8.306E+004	8.903E+004	9.519E+004
13	7.950E+004	8.510E+004	9.085E+004
14	7.611E+004	8.134E+004	8.672E+004
15	7.287E+004	7.777E+004	8.279E+004
16	6.977E+004	7.436E+004	7.905E+004
17	6.682E+004	7.111E+004	7.549E+004
18	6.399E+004	6.801E+004	7.209E+004
19	6.130E+004	6.505E+004	6.887E+004
20	5.873E+004	6.224E+004	6.579E+004
21	5.627E+004	5.955E+004	6.287E+004
22	5.392E+004	5.699E+004	6.008E+004
23	5.168E+004	5.455E+004	5.743E+004
24	4.954E+004	5.222E+004	5.490E+004
25	4.750E+004	5.000E+004	5.250E+004
26	4.543E+004	4.788E+004	5.034E+004
27	4.346E+004	4.586E+004	4.828E+004
28	4.158E+004	4.394E+004	4.632E+004
29	3.978E+004	4.210E+004	4.444E+004
30	3.808E+004	4.035E+004	4.264E+004
31	3.645E+004	3.867E+004	4.093E+004
32	3.490E+004	3.708E+004	3.929E+004
33	3.342E+004	3.555E+004	3.772E+004
34	3.202E+004	3.410E+004	3.622E+004
35	3.067E+004	3.271E+004	3.479E+004
36	2.939E+004	3.138E+004	3.342E+004
37	2.817E+004	3.011E+004	3.211E+004
38	2.700E+004	2.890E+004	3.085E+004
39	2.589E+004	2.774E+004	2.966E+004
40	2.483E+004	2.664E+004	2.851E+004

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T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
40	2.483E+004	2.664E+004	2.851E+004
41	2.382E+004	2.559E+004	2.741E+004
42	2.285E+004	2.458E+004	2.637E+004
43	2.193E+004	2.361E+004	2.536E+004
44	2.105E+004	2.269E+004	2.440E+004
45	2.021E+004	2.181E+004	2.348E+004
46	1.940E+004	2.097E+004	2.260E+004
47	1.864E+004	2.016E+004	2.175E+004
48	1.790E+004	1.939E+004	2.094E+004
49	1.720E+004	1.865E+004	2.017E+004
50	1.653E+004	1.794E+004	1.943E+004
51	1.589E+004	1.726E+004	1.871E+004
52	1.527E+004	1.661E+004	1.803E+004
53	1.468E+004	1.599E+004	1.737E+004
54	1.412E+004	1.540E+004	1.675E+004
55	1.358E+004	1.483E+004	1.614E+004
56	1.307E+004	1.428E+004	1.556E+004
57	1.257E+004	1.375E+004	1.501E+004
58	1.210E+004	1.325E+004	1.448E+004
59	1.165E+004	1.277E+004	1.397E+004
60	1.122E+004	1.231E+004	1.348E+004
61	1.080E+004	1.187E+004	1.300E+004
62	1.040E+004	1.144E+004	1.255E+004
63	1.002E+004	1.103E+004	1.212E+004
64	9.657E+003	1.064E+004	1.170E+004
65	9.307E+003	1.027E+004	1.130E+004
66	8.971E+003	9.908E+003	1.092E+004
67	8.649E+003	9.562E+003	1.055E+004
68	8.340E+003	9.230E+003	1.019E+004
69	8.043E+003	8.911E+003	9.847E+003
70	7.759E+003	8.604E+003	9.518E+003
71	7.485E+003	8.309E+003	9.200E+003
72	7.222E+003	8.025E+003	8.895E+003
73	6.970E+003	7.752E+003	8.601E+003
74	6.728E+003	7.490E+003	8.319E+003
75	6.495E+003	7.239E+003	8.047E+003
76	6.272E+003	6.996E+003	7.785E+003
77	6.057E+003	6.764E+003	7.534E+003
78	5.851E+003	6.540E+003	7.291E+003
79	5.653E+003	6.324E+003	7.058E+003
80	5.462E+003	6.117E+003	6.833E+003

T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
80	5.462E+003	6.117E+003	6.833E+003
81	5.280E+003	5.918E+003	6.617E+003
82	5.104E+003	5.727E+003	6.409E+003
83	4.935E+003	5.542E+003	6.209E+003
84	4.773E+003	5.365E+003	6.015E+003
85	4.616E+003	5.194E+003	5.829E+003
86	4.466E+003	5.029E+003	5.649E+003
87	4.321E+003	4.870E+003	5.476E+003
88	4.181E+003	4.717E+003	5.309E+003
89	4.047E+003	4.570E+003	5.147E+003
90	3.917E+003	4.428E+003	4.992E+003
91	3.793E+003	4.291E+003	4.842E+003
92	3.673E+003	4.159E+003	4.697E+003
93	3.557E+003	4.031E+003	4.557E+003
94	3.446E+003	3.908E+003	4.422E+003
95	3.338E+003	3.790E+003	4.292E+003
96	3.235E+003	3.675E+003	4.166E+003
97	3.135E+003	3.565E+003	4.044E+003
98	3.038E+003	3.458E+003	3.926E+003
99	2.945E+003	3.355E+003	3.813E+003
100	2.856E+003	3.256E+003	3.703E+003
101	2.769E+003	3.160E+003	3.597E+003
102	2.685E+003	3.067E+003	3.494E+003
103	2.605E+003	2.977E+003	3.395E+003
104	2.527E+003	2.891E+003	3.299E+003
105	2.452E+003	2.807E+003	3.206E+003
106	2.379E+003	2.726E+003	3.116E+003
107	2.309E+003	2.648E+003	3.029E+003
108	2.241E+003	2.573E+003	2.945E+003
109	2.176E+003	2.499E+003	2.864E+003
110	2.113E+003	2.429E+003	2.785E+003
111	2.052E+003	2.360E+003	2.709E+003
112	1.992E+003	2.294E+003	2.635E+003
113	1.935E+003	2.230E+003	2.564E+003
114	1.880E+003	2.169E+003	2.495E+003
115	1.827E+003	2.109E+003	2.428E+003
116	1.775E+003	2.051E+003	2.363E+003
117	1.725E+003	1.994E+003	2.300E+003
118	1.677E+003	1.940E+003	2.239E+003
119	1.630E+003	1.887E+003	2.180E+003
120	1.585E+003	1.836E+003	2.123E+003
121	1.541E+003	1.787E+003	2.067E+003
122	1.499E+003	1.739E+003	2.013E+003
123	1.457E+003	1.693E+003	1.961E+003
124	1.418E+003	1.648E+003	1.910E+003
125	1.379E+003	1.604E+003	1.861E+003