

## NTC THERMISTOR R-T CHARACTERISTICS

TYPE TN20-3N153J [T, B]

RESISTANCE (at25°C)	15000 Ω	R-TOLERANCE (±)	5 %
B-VALUE (25/50°C)	3650 K	B-TOLERANCE (±)	3 %

T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
-40	3.303E+005	3.852E+005	4.480E+005
-39	3.112E+005	3.622E+005	4.204E+005
-38	2.933E+005	3.407E+005	3.947E+005
-37	2.766E+005	3.206E+005	3.708E+005
-36	2.610E+005	3.019E+005	3.484E+005
-35	2.463E+005	2.844E+005	3.276E+005
-34	2.326E+005	2.681E+005	3.082E+005
-33	2.198E+005	2.528E+005	2.900E+005
-32	2.077E+005	2.385E+005	2.731E+005
-31	1.964E+005	2.250E+005	2.572E+005
-30	1.858E+005	2.125E+005	2.424E+005
-29	1.758E+005	2.007E+005	2.286E+005
-28	1.665E+005	1.897E+005	2.157E+005
-27	1.577E+005	1.794E+005	2.036E+005
-26	1.494E+005	1.697E+005	1.922E+005
-25	1.416E+005	1.605E+005	1.815E+005
-24	1.343E+005	1.519E+005	1.715E+005
-23	1.274E+005	1.438E+005	1.621E+005
-22	1.208E+005	1.362E+005	1.532E+005
-21	1.147E+005	1.291E+005	1.449E+005
-20	1.089E+005	1.223E+005	1.371E+005
-19	1.034E+005	1.160E+005	1.298E+005
-18	9.820E+004	1.100E+005	1.228E+005
-17	9.331E+004	1.043E+005	1.163E+005
-16	8.870E+004	9.899E+004	1.102E+005
-15	8.434E+004	9.398E+004	1.045E+005
-14	8.022E+004	8.924E+004	9.903E+004
-13	7.633E+004	8.478E+004	9.393E+004
-12	7.266E+004	8.057E+004	8.911E+004
-11	6.918E+004	7.659E+004	8.458E+004
-10	6.589E+004	7.283E+004	8.030E+004
-9	6.278E+004	6.928E+004	7.627E+004
-8	5.984E+004	6.593E+004	7.247E+004
-7	5.705E+004	6.276E+004	6.887E+004
-6	5.440E+004	5.976E+004	6.548E+004
-5	5.190E+004	5.692E+004	6.227E+004
-4	4.952E+004	5.423E+004	5.924E+004
-3	4.726E+004	5.168E+004	5.637E+004
-2	4.512E+004	4.927E+004	5.366E+004
-1	4.309E+004	4.698E+004	5.109E+004
0	4.116E+004	4.481E+004	4.866E+004

T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
0	4.116E+004	4.481E+004	4.866E+004
1	3.933E+004	4.275E+004	4.636E+004
2	3.759E+004	4.080E+004	4.418E+004
3	3.593E+004	3.895E+004	4.211E+004
4	3.436E+004	3.719E+004	4.015E+004
5	3.287E+004	3.552E+004	3.830E+004
6	3.145E+004	3.394E+004	3.654E+004
7	3.010E+004	3.244E+004	3.487E+004
8	2.881E+004	3.101E+004	3.329E+004
9	2.759E+004	2.965E+004	3.179E+004
10	2.642E+004	2.836E+004	3.036E+004
11	2.532E+004	2.714E+004	2.901E+004
12	2.426E+004	2.597E+004	2.773E+004
13	2.326E+004	2.486E+004	2.651E+004
14	2.230E+004	2.380E+004	2.535E+004
15	2.138E+004	2.280E+004	2.424E+004
16	2.051E+004	2.184E+004	2.319E+004
17	1.968E+004	2.093E+004	2.220E+004
18	1.888E+004	2.006E+004	2.124E+004
19	1.813E+004	1.923E+004	2.034E+004
20	1.740E+004	1.844E+004	1.948E+004
21	1.671E+004	1.768E+004	1.866E+004
22	1.605E+004	1.696E+004	1.788E+004
23	1.543E+004	1.628E+004	1.713E+004
24	1.482E+004	1.562E+004	1.643E+004
25	1.425E+004	1.500E+004	1.575E+004
26	1.367E+004	1.440E+004	1.514E+004
27	1.311E+004	1.384E+004	1.456E+004
28	1.258E+004	1.329E+004	1.401E+004
29	1.208E+004	1.278E+004	1.348E+004
30	1.160E+004	1.228E+004	1.297E+004
31	1.113E+004	1.181E+004	1.249E+004
32	1.069E+004	1.135E+004	1.202E+004
33	1.027E+004	1.092E+004	1.158E+004
34	9.873E+003	1.051E+004	1.115E+004
35	9.490E+003	1.011E+004	1.074E+004
36	9.123E+003	9.730E+003	1.035E+004
37	8.772E+003	9.366E+003	9.975E+003
38	8.437E+003	9.018E+003	9.616E+003
39	8.116E+003	8.685E+003	9.271E+003
40	7.809E+003	8.366E+003	8.941E+003

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RESISTANCE (at25°C)	15000 Ω	R-TOLERANCE (±)	5 %
B-VALUE (25/50°C)	3650 K	B-TOLERANCE (±)	3 %

T(°C)	Rmin(Ω)	Rnom(Ω)	Rmax(Ω)
40	7.809E+003	8.366E+003	8.941E+003
41	7.516E+003	8.061E+003	8.624E+003
42	7.235E+003	7.768E+003	8.319E+003
43	6.965E+003	7.487E+003	8.027E+003
44	6.708E+003	7.218E+003	7.747E+003
45	6.461E+003	6.960E+003	7.478E+003
46	6.224E+003	6.712E+003	7.220E+003
47	5.998E+003	6.475E+003	6.972E+003
48	5.780E+003	6.247E+003	6.734E+003
49	5.572E+003	6.028E+003	6.505E+003
50	5.372E+003	5.818E+003	6.285E+003
51	5.181E+003	5.616E+003	6.073E+003
52	4.997E+003	5.423E+003	5.870E+003
53	4.821E+003	5.237E+003	5.675E+003
54	4.651E+003	5.058E+003	5.487E+003
55	4.489E+003	4.886E+003	5.306E+003
56	4.333E+003	4.722E+003	5.132E+003
57	4.183E+003	4.563E+003	4.965E+003
58	4.040E+003	4.411E+003	4.804E+003
59	3.901E+003	4.264E+003	4.649E+003
60	3.769E+003	4.123E+003	4.500E+003
61	3.641E+003	3.988E+003	4.356E+003
62	3.519E+003	3.857E+003	4.218E+003
63	3.401E+003	3.732E+003	4.084E+003
64	3.288E+003	3.611E+003	3.956E+003
65	3.179E+003	3.495E+003	3.832E+003
66	3.074E+003	3.383E+003	3.713E+003
67	2.973E+003	3.275E+003	3.598E+003
68	2.876E+003	3.171E+003	3.488E+003
69	2.783E+003	3.071E+003	3.381E+003
70	2.694E+003	2.975E+003	3.278E+003
71	2.607E+003	2.883E+003	3.179E+003
72	2.524E+003	2.794E+003	3.084E+003
73	2.445E+003	2.708E+003	2.992E+003
74	2.368E+003	2.625E+003	2.903E+003
75	2.293E+003	2.545E+003	2.817E+003
76	2.222E+003	2.468E+003	2.734E+003
77	2.153E+003	2.393E+003	2.654E+003
78	2.086E+003	2.321E+003	2.576E+003
79	2.022E+003	2.252E+003	2.502E+003
80	1.960E+003	2.185E+003	2.429E+003

T(°C)	Rmin(Ω)	Rnom(Ω)	Rmax(Ω)
80	1.960E+003	2.185E+003	2.429E+003
81	1.901E+003	2.120E+003	2.359E+003
82	1.843E+003	2.058E+003	2.292E+003
83	1.787E+003	1.997E+003	2.226E+003
84	1.734E+003	1.939E+003	2.163E+003
85	1.682E+003	1.883E+003	2.102E+003
86	1.632E+003	1.828E+003	2.043E+003
87	1.584E+003	1.776E+003	1.986E+003
88	1.537E+003	1.725E+003	1.931E+003
89	1.492E+003	1.676E+003	1.877E+003
90	1.448E+003	1.628E+003	1.826E+003
91	1.406E+003	1.582E+003	1.776E+003
92	1.366E+003	1.538E+003	1.727E+003
93	1.326E+003	1.495E+003	1.680E+003
94	1.288E+003	1.453E+003	1.635E+003
95	1.252E+003	1.413E+003	1.591E+003
96	1.216E+003	1.374E+003	1.548E+003
97	1.182E+003	1.336E+003	1.507E+003
98	1.149E+003	1.300E+003	1.467E+003
99	1.116E+003	1.264E+003	1.428E+003
100	1.085E+003	1.230E+003	1.390E+003
101	1.055E+003	1.197E+003	1.354E+003
102	1.026E+003	1.165E+003	1.319E+003
103	9.982E+002	1.134E+003	1.285E+003
104	9.710E+002	1.104E+003	1.252E+003
105	9.446E+002	1.075E+003	1.220E+003
106	9.191E+002	1.046E+003	1.188E+003
107	8.944E+002	1.019E+003	1.158E+003
108	8.704E+002	9.925E+002	1.129E+003
109	8.472E+002	9.668E+002	1.100E+003
110	8.248E+002	9.419E+002	1.073E+003
111	8.030E+002	9.177E+002	1.046E+003
112	7.819E+002	8.942E+002	1.020E+003
113	7.614E+002	8.714E+002	9.949E+002
114	7.415E+002	8.493E+002	9.704E+002
115	7.223E+002	8.279E+002	9.466E+002
116	7.036E+002	8.071E+002	9.235E+002
117	6.856E+002	7.869E+002	9.010E+002
118	6.680E+002	7.673E+002	8.792E+002
119	6.510E+002	7.483E+002	8.580E+002
120	6.345E+002	7.298E+002	8.374E+002
121	6.184E+002	7.119E+002	8.174E+002
122	6.029E+002	6.945E+002	7.980E+002
123	5.878E+002	6.775E+002	7.791E+002
124	5.731E+002	6.611E+002	7.607E+002
125	5.589E+002	6.451E+002	7.428E+002