

## NTC THERMISTOR R-T CHARACTERISTICS

TYPE TN20-3K202J [T, B]

RESISTANCE (at25°C)	2000 $\Omega$	R-TOLERANCE ( $\pm$ )	5 %
B-VALUE (25/50°C)	3500 K	B-TOLERANCE ( $\pm$ )	3 %

T (°C)	Rmin ( $\Omega$ )	Rnom ( $\Omega$ )	Rmax ( $\Omega$ )
-40	4.349E+004	5.050E+004	5.849E+004
-39	4.096E+004	4.747E+004	5.488E+004
-38	3.859E+004	4.464E+004	5.151E+004
-37	3.638E+004	4.200E+004	4.837E+004
-36	3.431E+004	3.953E+004	4.545E+004
-35	3.237E+004	3.723E+004	4.272E+004
-34	3.055E+004	3.508E+004	4.017E+004
-33	2.885E+004	3.306E+004	3.780E+004
-32	2.725E+004	3.118E+004	3.558E+004
-31	2.575E+004	2.941E+004	3.350E+004
-30	2.435E+004	2.776E+004	3.156E+004
-29	2.303E+004	2.621E+004	2.975E+004
-28	2.179E+004	2.476E+004	2.805E+004
-27	2.063E+004	2.340E+004	2.646E+004
-26	1.954E+004	2.212E+004	2.497E+004
-25	1.851E+004	2.092E+004	2.358E+004
-24	1.754E+004	1.979E+004	2.227E+004
-23	1.663E+004	1.873E+004	2.104E+004
-22	1.577E+004	1.773E+004	1.989E+004
-21	1.496E+004	1.680E+004	1.881E+004
-20	1.420E+004	1.592E+004	1.779E+004
-19	1.348E+004	1.509E+004	1.684E+004
-18	1.281E+004	1.431E+004	1.594E+004
-17	1.217E+004	1.357E+004	1.510E+004
-16	1.157E+004	1.288E+004	1.430E+004
-15	1.100E+004	1.222E+004	1.356E+004
-14	1.046E+004	1.161E+004	1.285E+004
-13	9.952E+003	1.103E+004	1.219E+004
-12	9.472E+003	1.048E+004	1.157E+004
-11	9.018E+003	9.964E+003	1.098E+004
-10	8.590E+003	9.475E+003	1.043E+004
-9	8.184E+003	9.014E+003	9.904E+003
-8	7.800E+003	8.578E+003	9.411E+003
-7	7.436E+003	8.166E+003	8.945E+003
-6	7.092E+003	7.777E+003	8.506E+003
-5	6.766E+003	7.409E+003	8.092E+003
-4	6.457E+003	7.060E+003	7.700E+003
-3	6.165E+003	6.730E+003	7.330E+003
-2	5.887E+003	6.418E+003	6.980E+003
-1	5.624E+003	6.122E+003	6.648E+003
0	5.374E+003	5.842E+003	6.335E+003

T (°C)	Rmin ( $\Omega$ )	Rnom ( $\Omega$ )	Rmax ( $\Omega$ )
0	5.374E+003	5.842E+003	6.335E+003
1	5.137E+003	5.577E+003	6.039E+003
2	4.912E+003	5.325E+003	5.758E+003
3	4.698E+003	5.086E+003	5.492E+003
4	4.495E+003	4.859E+003	5.240E+003
5	4.302E+003	4.645E+003	5.002E+003
6	4.119E+003	4.440E+003	4.776E+003
7	3.944E+003	4.247E+003	4.561E+003
8	3.778E+003	4.063E+003	4.358E+003
9	3.620E+003	3.888E+003	4.165E+003
10	3.470E+003	3.722E+003	3.981E+003
11	3.327E+003	3.563E+003	3.807E+003
12	3.191E+003	3.413E+003	3.642E+003
13	3.061E+003	3.270E+003	3.485E+003
14	2.937E+003	3.134E+003	3.335E+003
15	2.820E+003	3.004E+003	3.193E+003
16	2.707E+003	2.881E+003	3.058E+003
17	2.600E+003	2.763E+003	2.930E+003
18	2.498E+003	2.651E+003	2.808E+003
19	2.400E+003	2.545E+003	2.691E+003
20	2.307E+003	2.443E+003	2.581E+003
21	2.218E+003	2.346E+003	2.475E+003
22	2.133E+003	2.253E+003	2.374E+003
23	2.052E+003	2.165E+003	2.279E+003
24	1.974E+003	2.081E+003	2.187E+003
25	1.900E+003	2.000E+003	2.100E+003
26	1.825E+003	1.923E+003	2.022E+003
27	1.753E+003	1.850E+003	1.947E+003
28	1.684E+003	1.779E+003	1.875E+003
29	1.619E+003	1.712E+003	1.806E+003
30	1.557E+003	1.648E+003	1.741E+003
31	1.497E+003	1.587E+003	1.678E+003
32	1.440E+003	1.528E+003	1.617E+003
33	1.385E+003	1.472E+003	1.560E+003
34	1.333E+003	1.418E+003	1.504E+003
35	1.283E+003	1.366E+003	1.451E+003
36	1.236E+003	1.317E+003	1.400E+003
37	1.190E+003	1.270E+003	1.352E+003
38	1.146E+003	1.225E+003	1.305E+003
39	1.105E+003	1.181E+003	1.260E+003
40	1.065E+003	1.140E+003	1.217E+003

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RESISTANCE (at25°C)	2000 Ω	R-TOLERANCE (±)	5 %
B-VALUE (25/50°C)	3500 K	B-TOLERANCE (±)	3 %

T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
40	1.065E+003	1.140E+003	1.217E+003
41	1.026E+003	1.100E+003	1.176E+003
42	9.897E+002	1.062E+003	1.136E+003
43	9.545E+002	1.025E+003	1.098E+003
44	9.208E+002	9.899E+002	1.062E+003
45	8.885E+002	9.562E+002	1.026E+003
46	8.575E+002	9.238E+002	9.927E+002
47	8.277E+002	8.927E+002	9.602E+002
48	7.992E+002	8.628E+002	9.291E+002
49	7.719E+002	8.341E+002	8.991E+002
50	7.456E+002	8.065E+002	8.702E+002
51	7.204E+002	7.800E+002	8.425E+002
52	6.962E+002	7.546E+002	8.158E+002
53	6.729E+002	7.301E+002	7.901E+002
54	6.506E+002	7.065E+002	7.654E+002
55	6.291E+002	6.839E+002	7.416E+002
56	6.085E+002	6.621E+002	7.187E+002
57	5.887E+002	6.412E+002	6.966E+002
58	5.696E+002	6.210E+002	6.753E+002
59	5.513E+002	6.016E+002	6.548E+002
60	5.336E+002	5.829E+002	6.351E+002
61	5.167E+002	5.649E+002	6.161E+002
62	5.003E+002	5.476E+002	5.977E+002
63	4.846E+002	5.309E+002	5.800E+002
64	4.695E+002	5.148E+002	5.630E+002
65	4.549E+002	4.993E+002	5.465E+002
66	4.409E+002	4.843E+002	5.306E+002
67	4.274E+002	4.699E+002	5.153E+002
68	4.144E+002	4.560E+002	5.005E+002
69	4.018E+002	4.425E+002	4.862E+002
70	3.897E+002	4.296E+002	4.724E+002
71	3.780E+002	4.171E+002	4.590E+002
72	3.667E+002	4.050E+002	4.461E+002
73	3.558E+002	3.933E+002	4.336E+002
74	3.453E+002	3.821E+002	4.216E+002
75	3.352E+002	3.712E+002	4.100E+002
76	3.255E+002	3.607E+002	3.987E+002
77	3.160E+002	3.505E+002	3.878E+002
78	3.069E+002	3.407E+002	3.773E+002
79	2.981E+002	3.312E+002	3.671E+002
80	2.896E+002	3.221E+002	3.572E+002

T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
80	2.896E+002	3.221E+002	3.572E+002
81	2.814E+002	3.132E+002	3.477E+002
82	2.735E+002	3.046E+002	3.384E+002
83	2.658E+002	2.963E+002	3.295E+002
84	2.584E+002	2.883E+002	3.209E+002
85	2.513E+002	2.805E+002	3.125E+002
86	2.443E+002	2.730E+002	3.044E+002
87	2.376E+002	2.658E+002	2.965E+002
88	2.312E+002	2.588E+002	2.889E+002
89	2.249E+002	2.519E+002	2.815E+002
90	2.189E+002	2.454E+002	2.744E+002
91	2.130E+002	2.390E+002	2.675E+002
92	2.073E+002	2.328E+002	2.608E+002
93	2.019E+002	2.269E+002	2.543E+002
94	1.966E+002	2.211E+002	2.480E+002
95	1.914E+002	2.155E+002	2.419E+002
96	1.864E+002	2.100E+002	2.360E+002
97	1.816E+002	2.047E+002	2.302E+002
98	1.769E+002	1.996E+002	2.246E+002
99	1.724E+002	1.947E+002	2.192E+002
100	1.680E+002	1.898E+002	2.140E+002
101	1.638E+002	1.852E+002	2.088E+002
102	1.596E+002	1.806E+002	2.039E+002
103	1.556E+002	1.762E+002	1.990E+002
104	1.517E+002	1.719E+002	1.944E+002
105	1.480E+002	1.678E+002	1.898E+002
106	1.443E+002	1.638E+002	1.854E+002
107	1.408E+002	1.599E+002	1.811E+002
108	1.373E+002	1.561E+002	1.769E+002
109	1.340E+002	1.524E+002	1.729E+002
110	1.307E+002	1.488E+002	1.689E+002
111	1.276E+002	1.453E+002	1.651E+002
112	1.245E+002	1.419E+002	1.614E+002
113	1.216E+002	1.387E+002	1.578E+002
114	1.187E+002	1.355E+002	1.542E+002
115	1.159E+002	1.324E+002	1.508E+002
116	1.132E+002	1.294E+002	1.475E+002
117	1.105E+002	1.264E+002	1.442E+002
118	1.080E+002	1.236E+002	1.411E+002
119	1.055E+002	1.208E+002	1.380E+002
120	1.030E+002	1.181E+002	1.350E+002
121	1.007E+002	1.155E+002	1.321E+002
122	9.840E+001	1.129E+002	1.293E+002
123	9.618E+001	1.105E+002	1.265E+002
124	9.401E+001	1.080E+002	1.239E+002
125	9.191E+001	1.057E+002	1.212E+002