NTC THERMISTOR R-T CHARACTERISTICS

TYPE	TN10-3K223J [T,B]

RESISTANCE(at25℃)	22000 Ω	R-TOLERANCE(±)	5 %
B-VALUE(25/50℃)	3500 K	B-TOLERANCE(±)	3 %

T(℃)	Rmin(Ω)	Rnom(Ω)	Rmax(Ω)
-40	4.107E+005	4.770E+005	5.525E+005
-39	3.879E+005	4.495E+005	5.197E+005
-38	3.664E+005	4.239E+005	4.891E+005
-37	3.463E+005	3.999E+005	4.605E+005
-36	3.275E+005	3.774E+005	4.338E+005
-35	3.098E+005	3.563E+005	4.088E+005
-34	2.931E+005	3.365E+005	3.855E+005
-33	2.775E+005	3.180E+005	3.636E+005
-32	2.628E+005	3.006E+005	3.431E+005
-31	2.490E+005	2.843E+005	3.239E+005
-30	2.360E+005	2.690E+005	3.059E+005
-29	2.237E+005	2.545E+005	2.889E+005
-28	2.121E+005	2.410E+005	2.730E+005
-27	2.013E+005	2.282E+005	2.582E+005
-26	1.910E+005	2.163E+005	2.442E+005
-25	1.814E+005	2.050E+005	2.311E+005
-24	1.723E+005	1.944E+005	2.188E+005
-23	1.638E+005	1.845E+005	2.072E+005
-22	1.557E+005	1.751E+005	1.964E+005
-21	1.481E+005	1.662E+005	1.861E+005
-20	1.409E+005	1.579E+005	1.765E+005
-19	1.341E+005	1.501E+005	1.675E+005
-18	1.277E+005	1.427E+005	1.589E+005
-17	1.217E+005	1.357E+005	1.509E+005
-16	1.159E+005	1.291E+005	1.434E+005
-15	1.105E+005	1.228E+005	1.362E+005
-14	1.054E+005	1.170E+005	1.295E+005
-13	1.005E+005	1.114E+005	1.232E+005
-12	9.594E+004	1.062E+005	1.172E+005
-11	9.159E+004	1.012E+005	1.115E+005
-10	8.747E+004	9.649E+004	1.062E+005
-9	8.355E+004	9.203E+004	1.011E+005
-8	7.984E+004	8.781E+004	9.633E+004
-7	7.633E+004	8.382E+004	9.182E+004
-6	7.299E+004	8.003E+004	8.754E+004
-5	6.982E+004	7.645E+004	8.350E+004
-4	6.681E+004	7.305E+004	7.967E+004
-3	6.395E+004	6.982E+004	7.604E+004
-2	6.124E+004	6.676E+004	7.260E+004
-1	5.865E+004	6.385E+004	6.934E+004
0	5.619E+004	6.109E+004	6.625E+004

T(℃)	Rmin(Ω)	Rnom(Ω)	Rmax(Ω)
0	5.619E+004	6.109E+004	6.625E+004
1	5.386E+004	5.847E+004	6.331E+004
2	5.164E+004	5.598E+004	6.053E+004
3	4.952E+004	5.361E+004	5.789E+004
4	4.750E+004	5.135E+004	5.537E+004
5	4.557E+004	4.920E+004	5.299E+004
6	4.374E+004	4.715E+004	5.071E+004
7	4.198E+004	4.521E+004	4.855E+004
8	4.031E+004	4.335E+004	4.649E+004
9	3.872E+004	4.158E+004	4.454E+004
10	3.719E+004	3.989E+004	4.267E+004
11	3.574E+004	3.828E+004	4.090E+004
12	3.435E+004	3.674E+004	3.920E+004
13	3.302E+004	3.527E+004	3.759E+004
14	3.175E+004	3.387E+004	3.605E+004
15	3.053E+004	3.254E+004	3.458E+004
16	2.937E+004	3.126E+004	3.318E+004
17	2.826E+004	3.004E+004	3.185E+004
18	2.720E+004	2.887E+004	3.057E+004
19	2.618E+004	2.775E+004	2.935E+004
20	2.520E+004	2.669E+004	2.819E+004
21	2.427E+004	2.567E+004	2.708E+004
22	2.337E+004	2.469E+004	2.602E+004
23	2.251E+004	2.375E+004	2.500E+004
24	2.169E+004	2.286E+004	2.403E+004
25	2.090E+004	2.200E+004	2.310E+004
26	2.010E+004	2.118E+004	2.226E+004
27	1.933E+004	2.039E+004	2.146E+004
28	1.859E+004	1.964E+004	2.069E+004
29	1.788E+004	1.891E+004	1.995E+004
30	1.721E+004	1.822E+004	1.924E+004
31	1.656E+004	1.755E+004	1.856E+004
32	1.594E+004	1.692E+004	1.791E+004
33	1.535E+004	1.630E+004	1.728E+004
34	1.478E+004	1.571E+004	1.667E+004
35	1.423E+004	1.515E+004	1.609E+004
36	1.370E+004	1.461E+004	1.553E+004
37	1.320E+004	1.408E+004	1.499E+004
38	1.272E+004	1.358E+004	1.447E+004
39	1.225E+004	1.310E+004	1.398E+004
40	1.181E+004	1.264E+004	1.350E+004

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T(℃)	Rmin(Ω)	Rnom(Ω)	Rmax(Ω)
40	1.181E+004	1.264E+004	1.350E+004
41	1.138E+004	1.219E+004	1.303E+004
42	1.096E+004	1.176E+004	1.259E+004
43	1.057E+004	1.135E+004	1.216E+004
44	1.019E+004	1.095E+004	1.175E+004
45	9.824E+003	1.057E+004	1.135E+004
46	9.473E+003	1.021E+004	1.097E+004
47	9.136E+003	9.852E+003	1.060E+004
48	8.812E+003	9.513E+003	1.024E+004
49	8.501E+003	9.186E+003	9.902E+003
50	8.202E+003	8.872E+003	9.573E+003
51	7.914E+003	8.570E+003	9.256E+003
52	7.638E+003	8.279E+003	8.951E+003
53	7.373E+003	7.999E+003	8.657E+003
54	7.117E+003	7.729E+003	8.373E+003
55	6.871E+003	7.470E+003	8.100E+003
56	6.635E+003	7.220E+003	7.836E+003
57	6.408E+003	6.979E+003	7.582E+003
58	6.189E+003	6.747E+003	7.338E+003
59	5.978E+003	6.524E+003	7.101E+003
60	5.775E+003	6.309E+003	6.874E+003
61	5.580E+003	6.101E+003	6.653E+003
62	5.392E+003	5.901E+003	6.441E+003
63	5.211E+003	5.708E+003	6.236E+003
64	5.036E+003	5.522E+003	6.039E+003
65	4.869E+003	5.343E+003	5.849E+003
66	4.707E+003	5.170E+003	5.665E+003
67	4.551E+003	5.004E+003	5.488E+003
68	4.402E+003	4.843E+003	5.316E+003
69	4.257E+003	4.689E+003	5.151E+003
70	4.118E+003	4.540E+003	4.992E+003
71	3.984E+003	4.396E+003	4.839E+003
72	3.855E+003	4.258E+003	4.690E+003
73	3.731E+003	4.124E+003	4.547E+003
74	3.612E+003	3.995E+003	4.409E+003
75	3.496E+003	3.871E+003	4.275E+003
76	3.385E+003	3.751E+003	4.147E+003
77	3.278E+003	3.635E+003	4.022E+003
78	3.174E+003	3.524E+003	3.902E+003
79	3.074E+003	3.416E+003	3.786E+003
80	2.978E+003	3.312E+003	3.673E+003

T(℃)	Rmin(Ω)	Rnom(Ω)	Rmax(Ω)
80	2.978E+003	3.312E+003	3.673E+003
81	2.885E+003	3.211E+003	3.564E+003
82	2.795E+003	3.113E+003	3.459E+003
83	2.708E+003	3.019E+003	3.357E+003
84	2.625E+003	2.929E+003	3.259E+003
85	2.544E+003	2.841E+003	3.165E+003
86	2.467E+003	2.757E+003	3.073E+003
87	2.392E+003	2.676E+003	2.985E+003
88	2.320E+003	2.597E+003	2.900E+003
89	2.251E+003	2.522E+003	2.818E+003
90	2.184E+003	2.449E+003	2.739E+003
91	2.121E+003	2.380E+003	2.663E+003
92	2.060E+003	2.313E+003	2.590E+003
93	2.000E+003	2.248E+003	2.520E+003
94	1.943E+003	2.185E+003	2.451E+003
95	1.887E+003	2.124E+003	2.385E+003
96	1.833E+003	2.065E+003	2.320E+003
97	1.781E+003	2.008E+003	2.258E+003
98	1.731E+003	1.953E+003	2.197E+003
99	1.682E+003	1.899E+003	2.139E+003
100	1.635E+003	1.847E+003	2.082E+003
101	1.589E+003	1.796E+003	2.026E+003
102	1.544E+003	1.747E+003	1.972E+003
103	1.501E+003	1.700E+003	1.920E+003
104	1.459E+003	1.654E+003	1.869E+003
105	1.419E+003	1.609E+003	1.820E+003
106	1.380E+003	1.566E+003	1.773E+003
107	1.342E+003	1.524E+003	1.727E+003
108	1.305E+003	1.484E+003	1.682E+003
109	1.270E+003	1.444E+003	1.639E+003
110	1.236E+003	1.406E+003	1.597E+003
111	1.202E+003	1.370E+003	1.556E+003
112	1.170E+003	1.334E+003	1.517E+003
113	1.139E+003	1.299E+003	1.478E+003
114	1.109E+003	1.266E+003	1.441E+003
115	1.080E+003	1.233E+003	1.405E+003
116	1.051E+003	1.202E+003	1.370E+003
117	1.024E+003	1.171E+003	1.336E+003
118	9.971E+002	1.141E+003	1.303E+003
119	9.712E+002	1.112E+003	1.271E+003
120	9.461E+002	1.084E+003	1.240E+003
121	9.218E+002	1.057E+003	1.209E+003
122	8.981E+002	1.031E+003	1.180E+003
123	8.752E+002	1.005E+003	1.151E+003
124	8.530E+002	9.803E+002	1.124E+003
125	8.314E+002	9.561E+002	1.097E+003