

NTC THERMISTOR R-T CHARACTERISTICS

TYPE TN11-3S224J [T, B]

RESISTANCE (at25°C)	220000 Ω	R-TOLERANCE (±)	5 %
B-VALUE (25/50°C)	3760 K	B-TOLERANCE (±)	3 %

T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
-40	5.137E+006	6.009E+006	7.011E+006
-39	4.839E+006	5.648E+006	6.577E+006
-38	4.560E+006	5.312E+006	6.172E+006
-37	4.299E+006	4.997E+006	5.795E+006
-36	4.054E+006	4.704E+006	5.444E+006
-35	3.826E+006	4.430E+006	5.116E+006
-34	3.611E+006	4.173E+006	4.811E+006
-33	3.410E+006	3.933E+006	4.525E+006
-32	3.222E+006	3.709E+006	4.258E+006
-31	3.045E+006	3.498E+006	4.009E+006
-30	2.879E+006	3.301E+006	3.776E+006
-29	2.724E+006	3.118E+006	3.560E+006
-28	2.578E+006	2.946E+006	3.356E+006
-27	2.441E+006	2.783E+006	3.166E+006
-26	2.312E+006	2.631E+006	2.987E+006
-25	2.190E+006	2.488E+006	2.819E+006
-24	2.075E+006	2.353E+006	2.662E+006
-23	1.967E+006	2.226E+006	2.514E+006
-22	1.865E+006	2.107E+006	2.374E+006
-21	1.768E+006	1.994E+006	2.244E+006
-20	1.677E+006	1.889E+006	2.121E+006
-19	1.591E+006	1.788E+006	2.005E+006
-18	1.510E+006	1.694E+006	1.896E+006
-17	1.433E+006	1.605E+006	1.794E+006
-16	1.361E+006	1.522E+006	1.697E+006
-15	1.293E+006	1.443E+006	1.607E+006
-14	1.229E+006	1.369E+006	1.522E+006
-13	1.168E+006	1.299E+006	1.442E+006
-12	1.111E+006	1.233E+006	1.366E+006
-11	1.056E+006	1.171E+006	1.295E+006
-10	1.005E+006	1.112E+006	1.228E+006
-9	9.565E+005	1.057E+006	1.165E+006
-8	9.106E+005	1.005E+006	1.106E+006
-7	8.672E+005	9.553E+005	1.050E+006
-6	8.261E+005	9.086E+005	9.968E+005
-5	7.871E+005	8.644E+005	9.469E+005
-4	7.503E+005	8.226E+005	8.997E+005
-3	7.153E+005	7.831E+005	8.551E+005
-2	6.822E+005	7.456E+005	8.130E+005
-1	6.507E+005	7.102E+005	7.732E+005
0	6.209E+005	6.767E+005	7.355E+005

T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
0	6.209E+005	6.767E+005	7.355E+005
1	5.926E+005	6.448E+005	6.999E+005
2	5.658E+005	6.147E+005	6.662E+005
3	5.403E+005	5.862E+005	6.343E+005
4	5.161E+005	5.591E+005	6.041E+005
5	4.931E+005	5.334E+005	5.755E+005
6	4.713E+005	5.091E+005	5.485E+005
7	4.506E+005	4.860E+005	5.228E+005
8	4.309E+005	4.640E+005	4.985E+005
9	4.121E+005	4.432E+005	4.755E+005
10	3.943E+005	4.234E+005	4.536E+005
11	3.773E+005	4.047E+005	4.329E+005
12	3.612E+005	3.868E+005	4.132E+005
13	3.458E+005	3.698E+005	3.946E+005
14	3.312E+005	3.537E+005	3.768E+005
15	3.172E+005	3.384E+005	3.600E+005
16	3.040E+005	3.238E+005	3.440E+005
17	2.913E+005	3.099E+005	3.288E+005
18	2.792E+005	2.966E+005	3.143E+005
19	2.677E+005	2.840E+005	3.005E+005
20	2.568E+005	2.720E+005	2.875E+005
21	2.463E+005	2.606E+005	2.750E+005
22	2.363E+005	2.497E+005	2.632E+005
23	2.268E+005	2.393E+005	2.519E+005
24	2.177E+005	2.294E+005	2.412E+005
25	2.090E+005	2.200E+005	2.310E+005
26	2.002E+005	2.110E+005	2.218E+005
27	1.918E+005	2.024E+005	2.131E+005
28	1.838E+005	1.943E+005	2.047E+005
29	1.762E+005	1.865E+005	1.968E+005
30	1.690E+005	1.790E+005	1.891E+005
31	1.621E+005	1.719E+005	1.818E+005
32	1.555E+005	1.651E+005	1.749E+005
33	1.492E+005	1.586E+005	1.682E+005
34	1.432E+005	1.524E+005	1.618E+005
35	1.375E+005	1.465E+005	1.557E+005
36	1.320E+005	1.408E+005	1.499E+005
37	1.268E+005	1.354E+005	1.443E+005
38	1.218E+005	1.303E+005	1.390E+005
39	1.170E+005	1.253E+005	1.338E+005
40	1.125E+005	1.206E+005	1.289E+005

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T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
40	1.125E+005	1.206E+005	1.289E+005
41	1.081E+005	1.160E+005	1.242E+005
42	1.040E+005	1.117E+005	1.197E+005
43	9.998E+004	1.075E+005	1.154E+005
44	9.617E+004	1.036E+005	1.112E+005
45	9.253E+004	9.974E+004	1.073E+005
46	8.904E+004	9.609E+004	1.034E+005
47	8.570E+004	9.259E+004	9.978E+004
48	8.250E+004	8.923E+004	9.627E+004
49	7.944E+004	8.601E+004	9.290E+004
50	7.651E+004	8.293E+004	8.966E+004
51	7.370E+004	7.997E+004	8.656E+004
52	7.101E+004	7.714E+004	8.358E+004
53	6.843E+004	7.441E+004	8.071E+004
54	6.596E+004	7.180E+004	7.796E+004
55	6.359E+004	6.929E+004	7.532E+004
56	6.132E+004	6.689E+004	7.278E+004
57	5.914E+004	6.458E+004	7.034E+004
58	5.705E+004	6.236E+004	6.799E+004
59	5.504E+004	6.022E+004	6.573E+004
60	5.311E+004	5.817E+004	6.356E+004
61	5.126E+004	5.620E+004	6.147E+004
62	4.949E+004	5.431E+004	5.946E+004
63	4.778E+004	5.249E+004	5.752E+004
64	4.614E+004	5.074E+004	5.566E+004
65	4.457E+004	4.906E+004	5.387E+004
66	4.305E+004	4.744E+004	5.214E+004
67	4.160E+004	4.588E+004	5.048E+004
68	4.020E+004	4.439E+004	4.888E+004
69	3.886E+004	4.294E+004	4.734E+004
70	3.757E+004	4.156E+004	4.585E+004
71	3.633E+004	4.022E+004	4.442E+004
72	3.513E+004	3.894E+004	4.305E+004
73	3.398E+004	3.770E+004	4.172E+004
74	3.288E+004	3.651E+004	4.044E+004
75	3.181E+004	3.536E+004	3.920E+004
76	3.079E+004	3.425E+004	3.801E+004
77	2.980E+004	3.319E+004	3.686E+004
78	2.885E+004	3.216E+004	3.575E+004
79	2.794E+004	3.117E+004	3.468E+004
80	2.706E+004	3.021E+004	3.364E+004

T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
80	2.706E+004	3.021E+004	3.364E+004
81	2.621E+004	2.929E+004	3.265E+004
82	2.539E+004	2.840E+004	3.169E+004
83	2.460E+004	2.754E+004	3.076E+004
84	2.384E+004	2.672E+004	2.986E+004
85	2.311E+004	2.592E+004	2.899E+004
86	2.240E+004	2.515E+004	2.816E+004
87	2.172E+004	2.440E+004	2.735E+004
88	2.106E+004	2.368E+004	2.656E+004
89	2.042E+004	2.299E+004	2.580E+004
90	1.981E+004	2.231E+004	2.507E+004
91	1.921E+004	2.166E+004	2.436E+004
92	1.864E+004	2.103E+004	2.367E+004
93	1.809E+004	2.042E+004	2.301E+004
94	1.755E+004	1.984E+004	2.236E+004
95	1.703E+004	1.927E+004	2.174E+004
96	1.653E+004	1.872E+004	2.114E+004
97	1.605E+004	1.819E+004	2.055E+004
98	1.559E+004	1.767E+004	1.999E+004
99	1.513E+004	1.718E+004	1.944E+004
100	1.470E+004	1.669E+004	1.891E+004
101	1.428E+004	1.623E+004	1.840E+004
102	1.387E+004	1.578E+004	1.791E+004
103	1.348E+004	1.534E+004	1.742E+004
104	1.309E+004	1.492E+004	1.696E+004
105	1.273E+004	1.451E+004	1.651E+004
106	1.237E+004	1.412E+004	1.607E+004
107	1.202E+004	1.373E+004	1.564E+004
108	1.169E+004	1.336E+004	1.523E+004
109	1.137E+004	1.300E+004	1.484E+004
110	1.105E+004	1.265E+004	1.445E+004
111	1.075E+004	1.231E+004	1.407E+004
112	1.045E+004	1.199E+004	1.371E+004
113	1.017E+004	1.167E+004	1.335E+004
114	9.893E+003	1.136E+004	1.301E+004
115	9.626E+003	1.106E+004	1.268E+004
116	9.368E+003	1.077E+004	1.236E+004
117	9.118E+003	1.049E+004	1.205E+004
118	8.875E+003	1.022E+004	1.174E+004
119	8.641E+003	9.959E+003	1.145E+004
120	8.414E+003	9.704E+003	1.116E+004
121	8.193E+003	9.457E+003	1.089E+004
122	7.980E+003	9.218E+003	1.062E+004
123	7.774E+003	8.986E+003	1.036E+004
124	7.573E+003	8.761E+003	1.011E+004
125	7.379E+003	8.542E+003	9.863E+003