NTC THERMISTOR R-T CHARACTERISTICS

TYPE	TD11-3S224F[T,B]

T0(℃)	T1(℃)	T2(℃)
25	25	50

R at T0℃	220000 Ω	R+TOLERANCE(%)	1.0	R-TOLERANCE(%)	1.0
B(T1℃/T2℃)	3760 K	B+TOLERANCE(K)	37.6	B-TOLERANCE(K)	37.6

T(℃)	Rmin(Ω)	Rnom(Ω)	Rmax(Ω)
−40	5.743E+06	6.009E+06	6.286E+06
−39	5.402E+06	5.648E+06	5.905E+06
−38	5.084E+06	5.312E+06	5.549E+06
−37	4.786E+06	4.997E+06	5.217E+06
−36	4.508E+06	4.704E+06	4.908E+06
−35	4.248E+06	4.430E+06	4.618E+06
−34	4.005E+06	4.173E+06	4.348E+06
−33	3.777E+06	3.933E+06	4.095E+06
−32	3.564E+06	3.709E+06	3.859E+06
−31	3.364E+06	3.498E+06	3.638E+06
−30	3.176E+06	3.301E+06	3.431E+06
−29	3.002E+06	3.118E+06	3.238E+06
−28	2.838E+06	2.946E+06	3.057E+06
−27	2.683E+06	2.783E+06	2.887E+06
−26	2.538E+06	2.631E+06	2.728E+06
−25	2.401E+06	2.488E+06	2.577E+06
−24	2.272E+06	2.353E+06	2.436E+06
−23	2.151E+06	2.226E+06	2.304E+06
−22	2.037E+06	2.107E+06	2.179E+06
−21	1.930E+06	1.994E+06	2.061E+06
−20	1.828E+06	1.889E+06	1.951E+06
−19	1.732E+06	1.788E+06	1.846E+06
−18	1.642E+06	1.694E+06	1.748E+06
−17	1.557E+06	1.605E+06	1.655E+06
−16	1.477E+06	1.522E+06	1.568E+06
−15	1.401E+06	1.443E+06	1.486E+06
−14	1.330E+06	1.369E+06	1.409E+06
−13	1.263E+06	1.299E+06	1.337E+06
−12	1.199E+06	1.233E+06	1.268E+06
−11	1.140E+06	1.171E+06	1.203E+06
−10	1.083E+06	1.112E+06	1.143E+06
−9	1.030E+06	1.057E+06	1.085E+06
−8	9.792E+05	1.005E+06	1.031E+06
−7	9.315E+05	9.553E+05	9.796E+05
−6	8.864E+05	9.086E+05	9.312E+05
−5	8.438E+05	8.644E+05	8.854E+05
−4	8.034E+05	8.226E+05	8.422E+05
−3	7.652E+05	7.831E+05	8.013E+05
−2	7.290E+05	7.456E+05	7.626E+05
−1	6.947E+05	7.102E+05	7.260E+05
0	6.622E+05	6.767E+05	6.914E+05

T(℃)	Rmin(Ω)	Rnom(Ω)	Rmax(Ω)
0	6.622E+05	6.767E+05	6.914E+05
1	6.314E+05	6.448E+05	6.585E+05
2	6.022E+05	6.147E+05	6.274E+05
3	5.745E+05	5.862E+05	5.980E+05
4	5.482E+05	5.591E+05	5.701E+05
5	5.233E+05	5.334E+05	5.437E+05
6	4.997E+05	5.091E+05	5.186E+05
7	4.772E+05	4.860E+05	4.948E+05
8	4.559E+05	4.640E+05	4.723E+05
9	4.356E+05	4.432E+05	4.508E+05
10	4.164E+05	4.234E+05	4.305E+05
11	3.981E+05	4.047E+05	4.113E+05
12	3.808E+05	3.868E+05	3.929E+05
13	3.642E+05	3.698E+05	3.755E+05
14	3.485E+05	3.537E+05	3.590E+05
15	3.335E+05	3.384E+05	3.432E+05
16	3.193E+05	3.238E+05	3.283E+05
17	3.057E+05	3.099E+05	3.140E+05
18	2.928E+05	2.966E+05	3.005E+05
19	2.804E+05	2.840E+05	2.876E+05
20	2.687E+05	2.720E+05	2.753E+05
21	2.575E+05	2.606E+05	2.636E+05
22	2.469E+05	2.497E+05	2.525E+05
23	2.367E+05	2.393E+05	2.419E+05
24	2.270E+05	2.294E+05	2.318E+05
25	2.178E+05	2.200E+05	2.222E+05
26	2.088E+05	2.110E+05	2.132E+05
27	2.002E+05	2.024E+05	2.046E+05
28	1.921E+05	1.943E+05	1.964E+05
29	1.843E+05	1.865E+05	1.886E+05
30	1.768E+05	1.790E+05	1.812E+05
31	1.698E+05	1.719E+05	1.740E+05
32	1.630E+05	1.651E+05	1.672E+05
33	1.565E+05	1.586E+05	1.607E+05
34	1.503E+05	1.524E+05	1.545E+05
35	1.444E+05	1.465E+05	1.486E+05
36	1.388E+05	1.408E+05	1.429E+05
37	1.334E+05	1.354E+05	1.375E+05
38	1.283E+05	1.303E+05	1.323E+05
39	1.234E+05	1.253E+05	1.273E+05
40	1.187E+05	1.206E+05	1.225E+05
41	1.141E+05	1.160E+05	1.180E+05
42	1.098E+05	1.117E+05	1.136E+05
43	1.057E+05	1.075E+05	1.094E+05
44	1.017E+05	1.036E+05	1.054E+05
45	9.797E+04	9.974E+04	1.015E+05
46	9.434E+04	9.609E+04	9.786E+04
47	9.087E+04	9.259E+04	9.433E+04
48	8.754E+04	8.923E+04	9.094E+04
49	8.436E+04	8.601E+04	8.769E+04
50	8.130E+04	8.293E+04	8.458E+04

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T(℃)	Rmin(Ω)	Rnom(Ω)	Rmax(Ω)
50	8.130E+04	8.293E+04	8.458E+04
51	7.838E+04	7.997E+04	8.159E+04
52	7.557E+04	7.714E+04	7.873E+04
53	7.288E+04	7.441E+04	7.598E+04
54	7.029E+04	7.180E+04	7.333E+04
55	6.781E+04	6.929E+04	7.080E+04
56	6.544E+04	6.689E+04	6.836E+04
57	6.315E+04	6.458E+04	6.602E+04
58	6.096E+04	6.236E+04	6.378E+04
59	5.886E+04	6.022E+04	6.162E+04
60	5.683E+04	5.817E+04	5.954E+04
61	5.489E+04	5.620E+04	5.754E+04
62	5.302E+04	5.431E+04	5.562E+04
63	5.123E+04	5.249E+04	5.378E+04
64	4.951E+04	5.074E+04	5.200E+04
65	4.785E+04	4.906E+04	5.029E+04
66	4.626E+04	4.744E+04	4.865E+04
67	4.472E+04	4.588E+04	4.707E+04
68	4.325E+04	4.439E+04	4.555E+04
69	4.183E+04	4.294E+04	4.408E+04
70	4.047E+04	4.156E+04	4.267E+04
71	3.916E+04	4.022E+04	4.132E+04
72	3.789E+04	3.894E+04	4.001E+04
73	3.668E+04	3.770E+04	3.875E+04
74	3.550E+04	3.651E+04	3.753E+04
75	3.438E+04	3.536E+04	3.637E+04
76	3.329E+04	3.425E+04	3.524E+04
77	3.224E+04	3.319E+04	3.415E+04
78	3.123E+04	3.216E+04	3.310E+04
79	3.026E+04	3.117E+04	3.209E+04
80	2.933E+04	3.021E+04	3.112E+04
81	2.842E+04	2.929E+04	3.018E+04
82	2.755E+04	2.840E+04	2.927E+04
83	2.671E+04	2.754E+04	2.840E+04
84	2.590E+04	2.672E+04	2.755E+04
85	2.512E+04	2.592E+04	2.674E+04
86	2.437E+04	2.515E+04	2.595E+04
87	2.364E+04	2.440E+04	2.519E+04
88	2.293E+04	2.368E+04	2.445E+04
89	2.225E+04	2.299E+04	2.374E+04
90	2.160E+04	2.231E+04	2.305E+04
91	2.096E+04	2.166E+04	2.238E+04
92	2.035E+04	2.103E+04	2.174E+04
93	1.975E+04	2.042E+04	2.112E+04
94	1.918E+04	1.984E+04	2.052E+04
95	1.862E+04	1.927E+04	1.993E+04
96	1.809E+04	1.872E+04	1.937E+04
97	1.757E+04	1.819E+04	1.883E+04
98	1.707E+04	1.767E+04	1.830E+04
99	1.658E+04	1.718E+04	1.779E+04
100	1.611E+04	1.669E+04	1.729E+04

T(℃)	Rmin(Ω)	Rnom(Ω)	Rmax(Ω)
100	1.611E+04	1.669E+04	1.729E+04
101	1.566E+04	1.623E+04	1.682E+04
102	1.522E+04	1.578E+04	1.635E+04
103	1.480E+04	1.534E+04	1.591E+04
104	1.439E+04	1.492E+04	1.547E+04
105	1.399E+04	1.451E+04	1.505E+04
106	1.360E+04	1.412E+04	1.465E+04
107	1.323E+04	1.373E+04	1.425E+04
108	1.287E+04	1.336E+04	1.387E+04
109	1.252E+04	1.300E+04	1.350E+04
110	1.218E+04	1.265E+04	1.314E+04
111	1.185E+04	1.231E+04	1.279E+04
112	1.153E+04	1.199E+04	1.246E+04
113	1.122E+04	1.167E+04	1.213E+04
114	1.093E+04	1.136E+04	1.181E+04
115	1.064E+04	1.106E+04	1.150E+04
116	1.036E+04	1.077E+04	1.121E+04
117	1.008E+04	1.049E+04	1.092E+04
118	9.821E+03	1.022E+04	1.064E+04
119	9.566E+03	9.959E+03	1.037E+04
120	9.319E+03	9.704E+03	1.010E+04
121	9.081E+03	9.459E+03	9.852E+03
122	8.850E+03	9.221E+03	9.606E+03
123	8.626E+03	8.990E+03	9.367E+03
124	8.409E+03	8.765E+03	9.135E+03
125	8.197E+03	8.547E+03	8.910E+03
126	7.992E+03	8.335E+03	8.691E+03
127	7.793E+03	8.129E+03	8.478E+03
128	7.599E+03	7.928E+03	8.271E+03
129	7.411E+03	7.734E+03	8.070E+03
130	7.228E+03	7.545E+03	7.875E+03
131	7.050E+03	7.361E+03	7.684E+03
132	6.877E+03	7.182E+03	7.499E+03
133	6.709E+03	7.008E+03	7.319E+03
134	6.545E+03	6.838E+03	7.144E+03
135	6.386E+03	6.674E+03	6.974E+03
136	6.232E+03	6.514E+03	6.808E+03
137	6.082E+03	6.359E+03	6.647E+03
138	5.936E+03	6.207E+03	6.490E+03
139	5.794E+03	6.060E+03	6.338E+03
140	5.656E+03	5.917E+03	6.190E+03
141	5.521E+03	5.777E+03	6.045E+03
142	5.390E+03	5.641E+03	5.904E+03
143	5.263E+03	5.509E+03	5.767E+03
144	5.139E+03	5.381E+03	5.634E+03
145	5.018E+03	5.256E+03	5.504E+03
146	4.901E+03	5.134E+03	5.378E+03
147	4.788E+03	5.016E+03	5.255E+03
148	4.677E+03	4.901E+03	5.136E+03
149	4.569E+03	4.789E+03	5.020E+03
150	4.464E+03	4.681E+03	4.907E+03