NTC THERMISTOR R-T CHARACTERISTICS

TYPE	TK11-4H104F[T,B]

T0(℃)	T1(℃)	T2(℃)
25	25	50

R at T0℃	100000 Ω	R+TOLERANCE(%)	1.0	R-TOLERANCE(%)	1.0
B(T1℃/T2℃)	4380 K	B+TOLERANCE(K)	43.8	B-TOLERANCE(K)	43.8

T(℃)	Rmin(Ω)	Rnom(Ω)	Rmax(Ω)
−40	5.083E+06	5.349E+06	5.628E+06
−39	4.721E+06	4.964E+06	5.219E+06
−38	4.387E+06	4.609E+06	4.842E+06
−37	4.078E+06	4.282E+06	4.494E+06
−36	3.793E+06	3.979E+06	4.174E+06
−35	3.530E+06	3.700E+06	3.878E+06
−34	3.286E+06	3.441E+06	3.604E+06
−33	3.060E+06	3.203E+06	3.352E+06
−32	2.851E+06	2.982E+06	3.118E+06
−31	2.658E+06	2.777E+06	2.902E+06
−30	2.479E+06	2.588E+06	2.702E+06
−29	2.312E+06	2.413E+06	2.517E+06
−28	2.158E+06	2.250E+06	2.346E+06
−27	2.015E+06	2.100E+06	2.188E+06
−26	1.882E+06	1.960E+06	2.041E+06
−25	1.759E+06	1.830E+06	1.904E+06
−24	1.645E+06	1.710E+06	1.778E+06
−23	1.539E+06	1.599E+06	1.661E+06
−22	1.440E+06	1.495E+06	1.552E+06
−21	1.348E+06	1.399E+06	1.451E+06
−20	1.262E+06	1.309E+06	1.357E+06
−19	1.183E+06	1.226E+06	1.270E+06
−18	1.109E+06	1.148E+06	1.189E+06
−17	1.040E+06	1.076E+06	1.113E+06
−16	9.755E+05	1.009E+06	1.043E+06
−15	9.155E+05	9.460E+05	9.775E+05
−14	8.596E+05	8.877E+05	9.166E+05
−13	8.074E+05	8.333E+05	8.599E+05
−12	7.587E+05	7.825E+05	8.070E+05
−11	7.133E+05	7.352E+05	7.577E+05
−10	6.708E+05	6.910E+05	7.117E+05
−9	6.311E+05	6.497E+05	6.687E+05
−8	5.940E+05	6.111E+05	6.286E+05
−7	5.593E+05	5.750E+05	5.911E+05
−6	5.269E+05	5.413E+05	5.562E+05
−5	4.965E+05	5.098E+05	5.234E+05
−4	4.680E+05	4.803E+05	4.928E+05
−3	4.414E+05	4.527E+05	4.642E+05
−2	4.164E+05	4.268E+05	4.374E+05
−1	3.930E+05	4.026E+05	4.124E+05
0	3.711E+05	3.799E+05	3.889E+05

T(℃)	Rmin(Ω)	Rnom(Ω)	Rmax(Ω)
0	3.711E+05	3.799E+05	3.889E+05
1	3.505E+05	3.586E+05	3.669E+05
2	3.311E+05	3.386E+05	3.462E+05
3	3.130E+05	3.199E+05	3.269E+05
4	2.960E+05	3.023E+05	3.087E+05
5	2.799E+05	2.858E+05	2.917E+05
6	2.649E+05	2.703E+05	2.757E+05
7	2.507E+05	2.557E+05	2.607E+05
8	2.374E+05	2.420E+05	2.466E+05
9	2.249E+05	2.291E+05	2.333E+05
10	2.131E+05	2.170E+05	2.208E+05
11	2.020E+05	2.056E+05	2.091E+05
12	1.916E+05	1.948E+05	1.981E+05
13	1.817E+05	1.847E+05	1.877E+05
14	1.724E+05	1.752E+05	1.779E+05
15	1.637E+05	1.662E+05	1.687E+05
16	1.554E+05	1.577E+05	1.600E+05
17	1.476E+05	1.497E+05	1.518E+05
18	1.403E+05	1.422E+05	1.441E+05
19	1.333E+05	1.351E+05	1.369E+05
20	1.268E+05	1.284E+05	1.300E+05
21	1.206E+05	1.220E+05	1.235E+05
22	1.147E+05	1.161E+05	1.174E+05
23	1.092E+05	1.104E+05	1.116E+05
24	1.040E+05	1.051E+05	1.062E+05
25	9.900E+04	1.000E+05	1.010E+05
26	9.422E+04	9.522E+04	9.622E+04
27	8.970E+04	9.069E+04	9.169E+04
28	8.542E+04	8.641E+04	8.740E+04
29	8.137E+04	8.235E+04	8.334E+04
30	7.754E+04	7.851E+04	7.949E+04
31	7.391E+04	7.487E+04	7.584E+04
32	7.047E+04	7.142E+04	7.238E+04
33	6.721E+04	6.815E+04	6.910E+04
34	6.412E+04	6.505E+04	6.598E+04
35	6.119E+04	6.211E+04	6.303E+04
36	5.842E+04	5.932E+04	6.022E+04
37	5.578E+04	5.667E+04	5.756E+04
38	5.328E+04	5.415E+04	5.503E+04
39	5.091E+04	5.176E+04	5.262E+04
40	4.865E+04	4.949E+04	5.034E+04
41	4.651E+04	4.734E+04	4.817E+04
42	4.448E+04	4.529E+04	4.610E+04
43	4.255E+04	4.334E+04	4.414E+04
44	4.071E+04	4.148E+04	4.227E+04
45	3.896E+04	3.972E+04	4.049E+04
46	3.730E+04	3.804E+04	3.879E+04
47	3.572E+04	3.644E+04	3.718E+04
48	3.421E+04	3.492E+04	3.564E+04
49	3.278E+04	3.347E+04	3.418E+04
50	3.141E+04	3.209E+04	3.278E+04

NTC THERMISTOR R-T CHARACTERISTICS

TYPE	TK11-4H104F[T,B]

T0(℃)	T1(℃)	T2(℃)
25	25	50

R at T0℃	100000 Ω	R+TOLERANCE(%)	1.0	R-TOLERANCE(%)	1.0
B(T1℃/T2℃)	4380 K	B+TOLERANCE(K)	43.8	B-TOLERANCE(K)	43.8

T(℃)	Rmin(Ω)	Rnom(Ω)	Rmax(Ω)
50	3.141E+04	3.209E+04	3.278E+04
51	3.011E+04	3.078E+04	3.145E+04
52	2.888E+04	2.952E+04	3.019E+04
53	2.769E+04	2.833E+04	2.898E+04
54	2.657E+04	2.719E+04	2.782E+04
55	2.550E+04	2.610E+04	2.672E+04
56	2.447E+04	2.506E+04	2.567E+04
57	2.350E+04	2.407E+04	2.466E+04
58	2.256E+04	2.313E+04	2.370E+04
59	2.167E+04	2.223E+04	2.279E+04
60	2.083E+04	2.136E+04	2.191E+04
61	2.001E+04	2.054E+04	2.108E+04
62	1.924E+04	1.975E+04	2.028E+04
63	1.850E+04	1.900E+04	1.951E+04
64	1.779E+04	1.828E+04	1.878E+04
65	1.711E+04	1.759E+04	1.808E+04
66	1.647E+04	1.693E+04	1.741E+04
67	1.585E+04	1.630E+04	1.677E+04
68	1.526E+04	1.570E+04	1.615E+04
69	1.469E+04	1.512E+04	1.556E+04
70	1.415E+04	1.457E+04	1.500E+04
71	1.363E+04	1.404E+04	1.446E+04
72	1.313E+04	1.353E+04	1.394E+04
73	1.265E+04	1.304E+04	1.345E+04
74	1.220E+04	1.258E+04	1.297E+04
75	1.176E+04	1.213E+04	1.251E+04
76	1.134E+04	1.170E+04	1.208E+04
77	1.094E+04	1.129E+04	1.166E+04
78	1.055E+04	1.090E+04	1.125E+04
79	1.018E+04	1.052E+04	1.087E+04
80	9.829E+03	1.016E+04	1.050E+04
81	9.488E+03	9.809E+03	1.014E+04
82	9.161E+03	9.475E+03	9.798E+03
83	8.848E+03	9.153E+03	9.469E+03
84	8.546E+03	8.845E+03	9.152E+03
85	8.257E+03	8.548E+03	8.849E+03
86	7.979E+03	8.263E+03	8.556E+03
87	7.712E+03	7.989E+03	8.276E+03
88	7.455E+03	7.726E+03	8.005E+03
89	7.208E+03	7.472E+03	7.745E+03
90	6.971E+03	7.229E+03	7.495E+03
91	6.742E+03	6.994E+03	7.255E+03
92	6.523E+03	6.769E+03	7.023E+03
93	6.312E+03	6.552E+03	6.800E+03
94	6.108E+03	6.343E+03	6.585E+03
95	5.913E+03	6.142E+03	6.379E+03
96	5.724E+03	5.948E+03	6.179E+03
97	5.543E+03	5.761E+03	5.988E+03
98	5.368E+03	5.581E+03	5.803E+03
99	5.200E+03	5.408E+03	5.624E+03
100	5.038E+03	5.241E+03	5.452E+03

T(℃)	Rmin(Ω)	Rnom(Ω)	Rmax(Ω)
100	5.038E+03	5.241E+03	5.452E+03
101	4.882E+03	5.080E+03	5.287E+03
102	4.731E+03	4.925E+03	5.127E+03
103	4.586E+03	4.776E+03	4.973E+03
104	4.446E+03	4.632E+03	4.824E+03
105	4.311E+03	4.492E+03	4.681E+03
106	4.181E+03	4.358E+03	4.542E+03
107	4.056E+03	4.229E+03	4.408E+03
108	3.935E+03	4.104E+03	4.279E+03
109	3.818E+03	3.983E+03	4.155E+03
110	3.705E+03	3.866E+03	4.034E+03
111	3.596E+03	3.754E+03	3.918E+03
112	3.491E+03	3.645E+03	3.806E+03
113	3.389E+03	3.540E+03	3.697E+03
114	3.291E+03	3.439E+03	3.592E+03
115	3.196E+03	3.341E+03	3.491E+03
116	3.105E+03	3.246E+03	3.393E+03
117	3.016E+03	3.154E+03	3.298E+03
118	2.931E+03	3.066E+03	3.206E+03
119	2.848E+03	2.980E+03	3.118E+03
120	2.768E+03	2.897E+03	3.032E+03
121	2.691E+03	2.817E+03	2.949E+03
122	2.616E+03	2.740E+03	2.869E+03
123	2.544E+03	2.665E+03	2.791E+03
124	2.474E+03	2.592E+03	2.716E+03
125	2.406E+03	2.522E+03	2.643E+03
126	2.341E+03	2.454E+03	2.572E+03
127	2.277E+03	2.388E+03	2.504E+03
128	2.216E+03	2.324E+03	2.438E+03
129	2.157E+03	2.263E+03	2.374E+03
130	2.099E+03	2.203E+03	2.312E+03
131	2.043E+03	2.145E+03	2.252E+03
132	1.989E+03	2.089E+03	2.193E+03
133	1.937E+03	2.035E+03	2.137E+03
134	1.886E+03	1.982E+03	2.082E+03
135	1.837E+03	1.931E+03	2.029E+03
136	1.790E+03	1.881E+03	1.977E+03
137	1.744E+03	1.833E+03	1.927E+03
138	1.699E+03	1.787E+03	1.879E+03
139	1.655E+03	1.742E+03	1.832E+03
140	1.613E+03	1.698E+03	1.786E+03
141	1.573E+03	1.655E+03	1.742E+03
142	1.533E+03	1.614E+03	1.699E+03
143	1.495E+03	1.574E+03	1.657E+03
144	1.457E+03	1.535E+03	1.617E+03
145	1.421E+03	1.498E+03	1.578E+03
146	1.386E+03	1.461E+03	1.540E+03
147	1.352E+03	1.425E+03	1.502E+03
148	1.319E+03	1.391E+03	1.466E+03
149	1.287E+03	1.357E+03	1.432E+03
150	1.256E+03	1.325E+03	1.398E+03

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25	25	50

R at T0℃	100000 Ω	R+TOLERANCE(%)	1.0	R-TOLERANCE(%)	1.0
B(T1℃/T2℃)	4380 K	B+TOLERANCE(K)	43.8	B-TOLERANCE(K)	43.8

T(℃)	Rmin(Ω)	Rnom(Ω)	Rmax(Ω)
150	1.256E+03	1.325E+03	1.398E+03
151	1.226E+03	1.293E+03	1.365E+03
152	1.196E+03	1.263E+03	1.333E+03
153	1.168E+03	1.233E+03	1.301E+03
154	1.140E+03	1.204E+03	1.271E+03
155	1.113E+03	1.176E+03	1.242E+03
156	1.087E+03	1.148E+03	1.213E+03
157	1.062E+03	1.122E+03	1.185E+03
158	1.037E+03	1.096E+03	1.158E+03
159	1.013E+03	1.071E+03	1.132E+03
160	9.894E+02	1.046E+03	1.106E+03
161	9.667E+02	1.022E+03	1.081E+03
162	9.446E+02	9.993E+02	1.057E+03
163	9.231E+02	9.768E+02	1.033E+03
164	9.022E+02	9.549E+02	1.011E+03
165	8.819E+02	9.336E+02	9.882E+02
166	8.621E+02	9.128E+02	9.665E+02
167	8.428E+02	8.926E+02	9.453E+02
168	8.241E+02	8.730E+02	9.247E+02
169	8.058E+02	8.539E+02	9.047E+02
170	7.881E+02	8.353E+02	8.852E+02
171	7.708E+02	8.171E+02	8.661E+02
172	7.540E+02	7.995E+02	8.476E+02
173	7.376E+02	7.823E+02	8.296E+02
174	7.217E+02	7.655E+02	8.120E+02
175	7.061E+02	7.492E+02	7.948E+02

T(℃)	Rmin(Ω)	Rnom(Ω)	Rmax(Ω)