

## NTC THERMISTOR R-T CHARACTERISTICS

TYPE TH05-4R474F [R, B]

RESISTANCE (at25°C)	470000 Ω	R-TOLERANCE (±)	1 %
B-VALUE (25/50°C)	4700 K	B-TOLERANCE (±)	1 %

T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
-40	3.029E+07	3.197E+07	3.374E+07
-39	2.801E+07	2.954E+07	3.115E+07
-38	2.592E+07	2.731E+07	2.878E+07
-37	2.400E+07	2.526E+07	2.659E+07
-36	2.223E+07	2.338E+07	2.459E+07
-35	2.060E+07	2.165E+07	2.275E+07
-34	1.910E+07	2.006E+07	2.106E+07
-33	1.772E+07	1.859E+07	1.950E+07
-32	1.644E+07	1.724E+07	1.807E+07
-31	1.527E+07	1.599E+07	1.675E+07
-30	1.418E+07	1.485E+07	1.554E+07
-29	1.318E+07	1.379E+07	1.442E+07
-28	1.226E+07	1.281E+07	1.339E+07
-27	1.140E+07	1.191E+07	1.243E+07
-26	1.061E+07	1.107E+07	1.155E+07
-25	9.880E+06	1.030E+07	1.074E+07
-24	9.204E+06	9.589E+06	9.990E+06
-23	8.577E+06	8.930E+06	9.296E+06
-22	7.997E+06	8.320E+06	8.654E+06
-21	7.459E+06	7.754E+06	8.061E+06
-20	6.961E+06	7.231E+06	7.511E+06
-19	6.498E+06	6.746E+06	7.001E+06
-18	6.069E+06	6.296E+06	6.530E+06
-17	5.671E+06	5.878E+06	6.092E+06
-16	5.301E+06	5.491E+06	5.687E+06
-15	4.957E+06	5.131E+06	5.310E+06
-14	4.638E+06	4.797E+06	4.961E+06
-13	4.340E+06	4.486E+06	4.637E+06
-12	4.064E+06	4.198E+06	4.336E+06
-11	3.807E+06	3.929E+06	4.055E+06
-10	3.567E+06	3.680E+06	3.795E+06
-9	3.344E+06	3.447E+06	3.553E+06
-8	3.136E+06	3.231E+06	3.328E+06
-7	2.942E+06	3.029E+06	3.118E+06
-6	2.762E+06	2.841E+06	2.922E+06
-5	2.593E+06	2.666E+06	2.740E+06
-4	2.436E+06	2.502E+06	2.571E+06
-3	2.289E+06	2.350E+06	2.413E+06
-2	2.152E+06	2.208E+06	2.265E+06
-1	2.023E+06	2.075E+06	2.127E+06
0	1.904E+06	1.951E+06	1.999E+06

T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
0	1.904E+06	1.951E+06	1.999E+06
1	1.792E+06	1.835E+06	1.879E+06
2	1.687E+06	1.726E+06	1.767E+06
3	1.589E+06	1.625E+06	1.662E+06
4	1.497E+06	1.530E+06	1.564E+06
5	1.411E+06	1.441E+06	1.472E+06
6	1.330E+06	1.358E+06	1.386E+06
7	1.255E+06	1.280E+06	1.306E+06
8	1.184E+06	1.207E+06	1.231E+06
9	1.117E+06	1.139E+06	1.161E+06
10	1.055E+06	1.075E+06	1.095E+06
11	9.967E+05	1.015E+06	1.033E+06
12	9.418E+05	9.582E+05	9.748E+05
13	8.903E+05	9.053E+05	9.204E+05
14	8.419E+05	8.555E+05	8.693E+05
15	7.963E+05	8.088E+05	8.214E+05
16	7.535E+05	7.649E+05	7.763E+05
17	7.133E+05	7.236E+05	7.340E+05
18	6.754E+05	6.848E+05	6.943E+05
19	6.397E+05	6.483E+05	6.569E+05
20	6.062E+05	6.140E+05	6.218E+05
21	5.746E+05	5.816E+05	5.887E+05
22	5.448E+05	5.512E+05	5.576E+05
23	5.167E+05	5.225E+05	5.283E+05
24	4.903E+05	4.955E+05	5.007E+05
25	4.653E+05	4.700E+05	4.747E+05
26	4.413E+05	4.460E+05	4.507E+05
27	4.187E+05	4.233E+05	4.280E+05
28	3.973E+05	4.020E+05	4.066E+05
29	3.772E+05	3.818E+05	3.864E+05
30	3.582E+05	3.627E+05	3.673E+05
31	3.402E+05	3.448E+05	3.493E+05
32	3.233E+05	3.278E+05	3.322E+05
33	3.073E+05	3.117E+05	3.161E+05
34	2.922E+05	2.965E+05	3.009E+05
35	2.779E+05	2.822E+05	2.864E+05
36	2.644E+05	2.686E+05	2.728E+05
37	2.516E+05	2.557E+05	2.599E+05
38	2.396E+05	2.436E+05	2.476E+05
39	2.281E+05	2.321E+05	2.360E+05
40	2.173E+05	2.212E+05	2.251E+05

## NTC THERMISTOR R-T CHARACTERISTICS

TYPE TH05-4R474F [R, B]

RESISTANCE (at25°C)	470000 Ω	R-TOLERANCE (±)	1 %
B-VALUE (25/50°C)	4700 K	B-TOLERANCE (±)	1 %

T(°C)	Rmin(Ω)	Rnom(Ω)	Rmax(Ω)
40	2.173E+05	2.212E+05	2.251E+05
41	2.070E+05	2.108E+05	2.146E+05
42	1.973E+05	2.010E+05	2.048E+05
43	1.881E+05	1.918E+05	1.954E+05
44	1.794E+05	1.830E+05	1.865E+05
45	1.712E+05	1.746E+05	1.781E+05
46	1.633E+05	1.667E+05	1.701E+05
47	1.559E+05	1.592E+05	1.625E+05
48	1.488E+05	1.520E+05	1.553E+05
49	1.421E+05	1.453E+05	1.484E+05
50	1.358E+05	1.388E+05	1.419E+05
51	1.297E+05	1.327E+05	1.357E+05
52	1.240E+05	1.269E+05	1.299E+05
53	1.185E+05	1.214E+05	1.243E+05
54	1.134E+05	1.161E+05	1.189E+05
55	1.084E+05	1.111E+05	1.139E+05
56	1.038E+05	1.064E+05	1.090E+05
57	9.929E+04	1.018E+05	1.044E+05
58	9.505E+04	9.753E+04	1.001E+05
59	9.102E+04	9.343E+04	9.590E+04
60	8.718E+04	8.953E+04	9.193E+04
61	8.352E+04	8.581E+04	8.815E+04
62	8.003E+04	8.226E+04	8.454E+04
63	7.671E+04	7.888E+04	8.110E+04
64	7.355E+04	7.566E+04	7.782E+04
65	7.053E+04	7.258E+04	7.469E+04
66	6.765E+04	6.965E+04	7.170E+04
67	6.491E+04	6.685E+04	6.885E+04
68	6.229E+04	6.418E+04	6.613E+04
69	5.979E+04	6.163E+04	6.352E+04
70	5.741E+04	5.920E+04	6.104E+04
71	5.513E+04	5.688E+04	5.867E+04
72	5.296E+04	5.465E+04	5.640E+04
73	5.088E+04	5.253E+04	5.423E+04
74	4.890E+04	5.050E+04	5.216E+04
75	4.700E+04	4.857E+04	5.017E+04
76	4.519E+04	4.671E+04	4.828E+04
77	4.346E+04	4.494E+04	4.646E+04
78	4.180E+04	4.324E+04	4.473E+04
79	4.022E+04	4.162E+04	4.306E+04
80	3.870E+04	4.006E+04	4.147E+04

T(°C)	Rmin(Ω)	Rnom(Ω)	Rmax(Ω)
80	3.870E+04	4.006E+04	4.147E+04
81	3.725E+04	3.858E+04	3.995E+04
82	3.586E+04	3.715E+04	3.849E+04
83	3.453E+04	3.579E+04	3.709E+04
84	3.326E+04	3.448E+04	3.575E+04
85	3.204E+04	3.323E+04	3.446E+04
86	3.087E+04	3.203E+04	3.323E+04
87	2.975E+04	3.088E+04	3.205E+04
88	2.868E+04	2.978E+04	3.091E+04
89	2.765E+04	2.872E+04	2.982E+04
90	2.666E+04	2.770E+04	2.878E+04
91	2.572E+04	2.673E+04	2.778E+04
92	2.481E+04	2.580E+04	2.682E+04
93	2.394E+04	2.490E+04	2.590E+04
94	2.310E+04	2.404E+04	2.501E+04
95	2.230E+04	2.321E+04	2.416E+04
96	2.153E+04	2.242E+04	2.334E+04
97	2.079E+04	2.166E+04	2.255E+04
98	2.008E+04	2.092E+04	2.180E+04
99	1.940E+04	2.022E+04	2.107E+04
100	1.874E+04	1.954E+04	2.037E+04
101	1.811E+04	1.889E+04	1.970E+04
102	1.751E+04	1.827E+04	1.906E+04
103	1.693E+04	1.767E+04	1.843E+04
104	1.637E+04	1.709E+04	1.784E+04
105	1.583E+04	1.653E+04	1.726E+04
106	1.531E+04	1.599E+04	1.671E+04
107	1.481E+04	1.548E+04	1.617E+04
108	1.433E+04	1.498E+04	1.566E+04
109	1.387E+04	1.450E+04	1.517E+04
110	1.343E+04	1.404E+04	1.469E+04
111	1.300E+04	1.360E+04	1.423E+04
112	1.259E+04	1.317E+04	1.379E+04
113	1.219E+04	1.276E+04	1.336E+04
114	1.181E+04	1.237E+04	1.295E+04
115	1.144E+04	1.198E+04	1.255E+04
116	1.108E+04	1.162E+04	1.217E+04
117	1.074E+04	1.126E+04	1.180E+04
118	1.041E+04	1.092E+04	1.145E+04
119	1.009E+04	1.059E+04	1.111E+04
120	9.786E+03	1.027E+04	1.077E+04
121	9.490E+03	9.961E+03	1.045E+04
122	9.205E+03	9.665E+03	1.015E+04
123	8.929E+03	9.378E+03	9.849E+03
124	8.663E+03	9.102E+03	9.561E+03
125	8.407E+03	8.835E+03	9.283E+03