

## NTC THERMISTOR R-T CHARACTERISTICS

TYPE TH05-4K474H[R, B]

RESISTANCE (at25°C)	470000 $\Omega$	R-TOLERANCE ( $\pm$ )	3 %
B-VALUE (25/50°C)	4500 K	B-TOLERANCE ( $\pm$ )	1 %

T (°C)	Rmin ( $\Omega$ )	Rnom ( $\Omega$ )	Rmax ( $\Omega$ )
-40	2.361E+007	2.539E+007	2.728E+007
-39	2.201E+007	2.365E+007	2.538E+007
-38	2.052E+007	2.203E+007	2.362E+007
-37	1.913E+007	2.052E+007	2.199E+007
-36	1.784E+007	1.912E+007	2.048E+007
-35	1.664E+007	1.782E+007	1.907E+007
-34	1.553E+007	1.661E+007	1.776E+007
-33	1.449E+007	1.549E+007	1.655E+007
-32	1.352E+007	1.445E+007	1.542E+007
-31	1.262E+007	1.348E+007	1.437E+007
-30	1.179E+007	1.257E+007	1.340E+007
-29	1.100E+007	1.173E+007	1.249E+007
-28	1.028E+007	1.095E+007	1.165E+007
-27	9.601E+006	1.022E+007	1.087E+007
-26	8.973E+006	9.543E+006	1.014E+007
-25	8.388E+006	8.915E+006	9.466E+006
-24	7.845E+006	8.331E+006	8.839E+006
-23	7.339E+006	7.788E+006	8.257E+006
-22	6.868E+006	7.283E+006	7.716E+006
-21	6.429E+006	6.813E+006	7.213E+006
-20	6.020E+006	6.375E+006	6.745E+006
-19	5.639E+006	5.967E+006	6.309E+006
-18	5.284E+006	5.587E+006	5.903E+006
-17	4.953E+006	5.234E+006	5.526E+006
-16	4.644E+006	4.904E+006	5.175E+006
-15	4.357E+006	4.598E+006	4.848E+006
-14	4.088E+006	4.312E+006	4.543E+006
-13	3.838E+006	4.045E+006	4.259E+006
-12	3.605E+006	3.797E+006	3.995E+006
-11	3.387E+006	3.565E+006	3.748E+006
-10	3.183E+006	3.348E+006	3.518E+006
-9	2.993E+006	3.146E+006	3.304E+006
-8	2.815E+006	2.957E+006	3.103E+006
-7	2.648E+006	2.780E+006	2.916E+006
-6	2.493E+006	2.615E+006	2.741E+006
-5	2.347E+006	2.461E+006	2.578E+006
-4	2.211E+006	2.317E+006	2.426E+006
-3	2.084E+006	2.182E+006	2.283E+006
-2	1.964E+006	2.056E+006	2.149E+006
-1	1.852E+006	1.937E+006	2.025E+006
0	1.748E+006	1.827E+006	1.908E+006

T (°C)	Rmin ( $\Omega$ )	Rnom ( $\Omega$ )	Rmax ( $\Omega$ )
0	1.748E+006	1.827E+006	1.908E+006
1	1.649E+006	1.723E+006	1.798E+006
2	1.557E+006	1.626E+006	1.696E+006
3	1.471E+006	1.534E+006	1.599E+006
4	1.389E+006	1.449E+006	1.509E+006
5	1.313E+006	1.368E+006	1.425E+006
6	1.241E+006	1.293E+006	1.346E+006
7	1.174E+006	1.222E+006	1.271E+006
8	1.111E+006	1.156E+006	1.201E+006
9	1.051E+006	1.093E+006	1.136E+006
10	9.954E+005	1.034E+006	1.074E+006
11	9.428E+005	9.792E+005	1.016E+006
12	8.932E+005	9.272E+005	9.616E+005
13	8.465E+005	8.782E+005	9.103E+005
14	8.025E+005	8.322E+005	8.621E+005
15	7.611E+005	7.888E+005	8.167E+005
16	7.221E+005	7.479E+005	7.740E+005
17	6.852E+005	7.094E+005	7.337E+005
18	6.505E+005	6.730E+005	6.957E+005
19	6.177E+005	6.388E+005	6.600E+005
20	5.868E+005	6.065E+005	6.263E+005
21	5.575E+005	5.760E+005	5.945E+005
22	5.299E+005	5.472E+005	5.644E+005
23	5.039E+005	5.200E+005	5.361E+005
24	4.792E+005	4.943E+005	5.094E+005
25	4.559E+005	4.700E+005	4.841E+005
26	4.334E+005	4.471E+005	4.607E+005
27	4.122E+005	4.253E+005	4.386E+005
28	3.921E+005	4.048E+005	4.176E+005
29	3.731E+005	3.854E+005	3.978E+005
30	3.551E+005	3.670E+005	3.790E+005
31	3.381E+005	3.496E+005	3.612E+005
32	3.220E+005	3.331E+005	3.443E+005
33	3.068E+005	3.175E+005	3.283E+005
34	2.923E+005	3.027E+005	3.132E+005
35	2.786E+005	2.887E+005	2.988E+005
36	2.657E+005	2.754E+005	2.851E+005
37	2.534E+005	2.627E+005	2.722E+005
38	2.417E+005	2.508E+005	2.599E+005
39	2.307E+005	2.394E+005	2.483E+005
40	2.202E+005	2.286E+005	2.372E+005

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RESISTANCE (at 25°C)	470000 Ω	R-TOLERANCE (±)	3 %
B-VALUE (25/50°C)	4500 K	B-TOLERANCE (±)	1 %

T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
40	2.202E+005	2.286E+005	2.372E+005
41	2.102E+005	2.184E+005	2.267E+005
42	2.007E+005	2.086E+005	2.167E+005
43	1.918E+005	1.994E+005	2.071E+005
44	1.832E+005	1.906E+005	1.981E+005
45	1.751E+005	1.823E+005	1.895E+005
46	1.674E+005	1.743E+005	1.813E+005
47	1.601E+005	1.668E+005	1.735E+005
48	1.531E+005	1.596E+005	1.661E+005
49	1.465E+005	1.527E+005	1.591E+005
50	1.402E+005	1.462E+005	1.524E+005
51	1.342E+005	1.400E+005	1.460E+005
52	1.285E+005	1.341E+005	1.399E+005
53	1.230E+005	1.285E+005	1.341E+005
54	1.178E+005	1.231E+005	1.285E+005
55	1.129E+005	1.180E+005	1.232E+005
56	1.082E+005	1.131E+005	1.182E+005
57	1.037E+005	1.085E+005	1.134E+005
58	9.945E+004	1.041E+005	1.088E+005
59	9.537E+004	9.985E+004	1.044E+005
60	9.148E+004	9.582E+004	1.003E+005
61	8.777E+004	9.197E+004	9.628E+004
62	8.423E+004	8.829E+004	9.247E+004
63	8.085E+004	8.478E+004	8.883E+004
64	7.762E+004	8.143E+004	8.535E+004
65	7.454E+004	7.823E+004	8.203E+004
66	7.160E+004	7.517E+004	7.885E+004
67	6.878E+004	7.225E+004	7.581E+004
68	6.610E+004	6.945E+004	7.291E+004
69	6.353E+004	6.678E+004	7.013E+004
70	6.107E+004	6.422E+004	6.747E+004
71	5.873E+004	6.178E+004	6.492E+004
72	5.648E+004	5.943E+004	6.249E+004
73	5.433E+004	5.720E+004	6.016E+004
74	5.227E+004	5.505E+004	5.792E+004
75	5.031E+004	5.300E+004	5.579E+004
76	4.842E+004	5.103E+004	5.374E+004
77	4.662E+004	4.915E+004	5.177E+004
78	4.489E+004	4.735E+004	4.989E+004
79	4.324E+004	4.562E+004	4.809E+004
80	4.165E+004	4.396E+004	4.636E+004

T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
80	4.165E+004	4.396E+004	4.636E+004
81	4.014E+004	4.238E+004	4.470E+004
82	3.868E+004	4.085E+004	4.311E+004
83	3.728E+004	3.939E+004	4.159E+004
84	3.595E+004	3.799E+004	4.012E+004
85	3.466E+004	3.665E+004	3.872E+004
86	3.343E+004	3.536E+004	3.737E+004
87	3.225E+004	3.413E+004	3.607E+004
88	3.112E+004	3.294E+004	3.483E+004
89	3.003E+004	3.180E+004	3.364E+004
90	2.899E+004	3.070E+004	3.249E+004
91	2.799E+004	2.965E+004	3.139E+004
92	2.702E+004	2.864E+004	3.033E+004
93	2.610E+004	2.767E+004	2.931E+004
94	2.521E+004	2.674E+004	2.834E+004
95	2.436E+004	2.584E+004	2.739E+004
96	2.354E+004	2.498E+004	2.649E+004
97	2.275E+004	2.415E+004	2.562E+004
98	2.199E+004	2.336E+004	2.478E+004
99	2.127E+004	2.259E+004	2.398E+004
100	2.057E+004	2.186E+004	2.320E+004
101	1.989E+004	2.115E+004	2.246E+004
102	1.924E+004	2.046E+004	2.174E+004
103	1.862E+004	1.981E+004	2.105E+004
104	1.802E+004	1.917E+004	2.038E+004
105	1.744E+004	1.857E+004	1.974E+004
106	1.689E+004	1.798E+004	1.912E+004
107	1.635E+004	1.741E+004	1.853E+004
108	1.583E+004	1.687E+004	1.796E+004
109	1.534E+004	1.635E+004	1.740E+004
110	1.486E+004	1.584E+004	1.687E+004
111	1.440E+004	1.535E+004	1.636E+004
112	1.395E+004	1.488E+004	1.586E+004
113	1.353E+004	1.443E+004	1.539E+004
114	1.311E+004	1.400E+004	1.492E+004
115	1.271E+004	1.358E+004	1.448E+004
116	1.233E+004	1.317E+004	1.405E+004
117	1.196E+004	1.278E+004	1.364E+004
118	1.160E+004	1.240E+004	1.324E+004
119	1.126E+004	1.204E+004	1.285E+004
120	1.093E+004	1.168E+004	1.248E+004
121	1.061E+004	1.134E+004	1.212E+004
122	1.030E+004	1.102E+004	1.177E+004
123	9.998E+003	1.070E+004	1.144E+004
124	9.709E+003	1.039E+004	1.112E+004
125	9.431E+003	1.010E+004	1.080E+004