

## NTC THERMISTOR R-T CHARACTERISTICS

TYPE MH18-3U104F\*

T0 (°C)	T1 (°C)	T2 (°C)
25	25	50

R at T0°C	10000 $\Omega$	R+TOLERANCE (%)	1	R-TOLERANCE (%)	1
B (T1°C/T2°C)	3965 K	B+TOLERANCE (K)	39.65	B-TOLERANCE (K)	39.65

T (°C)	Rmin ( $\Omega$ )	Rnom ( $\Omega$ )	Rmax ( $\Omega$ )
-40	2.984E+06	3.128E+06	3.278E+06
-39	2.802E+06	2.935E+06	3.075E+06
-38	2.633E+06	2.756E+06	2.885E+06
-37	2.475E+06	2.589E+06	2.707E+06
-36	2.327E+06	2.432E+06	2.542E+06
-35	2.189E+06	2.286E+06	2.388E+06
-34	2.059E+06	2.150E+06	2.243E+06
-33	1.938E+06	2.022E+06	2.109E+06
-32	1.825E+06	1.903E+06	1.983E+06
-31	1.719E+06	1.791E+06	1.865E+06
-30	1.620E+06	1.687E+06	1.755E+06
-29	1.527E+06	1.589E+06	1.653E+06
-28	1.440E+06	1.497E+06	1.556E+06
-27	1.359E+06	1.411E+06	1.466E+06
-26	1.282E+06	1.331E+06	1.382E+06
-25	1.210E+06	1.256E+06	1.303E+06
-24	1.143E+06	1.185E+06	1.228E+06
-23	1.079E+06	1.118E+06	1.159E+06
-22	1.020E+06	1.056E+06	1.094E+06
-21	9.640E+05	9.976E+05	1.032E+06
-20	9.114E+05	9.427E+05	9.749E+05
-19	8.621E+05	8.911E+05	9.209E+05
-18	8.156E+05	8.426E+05	8.703E+05
-17	7.720E+05	7.969E+05	8.227E+05
-16	7.308E+05	7.540E+05	7.779E+05
-15	6.921E+05	7.137E+05	7.358E+05
-14	6.557E+05	6.757E+05	6.962E+05
-13	6.213E+05	6.399E+05	6.590E+05
-12	5.889E+05	6.062E+05	6.239E+05
-11	5.584E+05	5.744E+05	5.909E+05
-10	5.296E+05	5.445E+05	5.598E+05
-9	5.024E+05	5.163E+05	5.304E+05
-8	4.768E+05	4.896E+05	5.028E+05
-7	4.526E+05	4.645E+05	4.767E+05
-6	4.298E+05	4.409E+05	4.522E+05
-5	4.082E+05	4.185E+05	4.290E+05
-4	3.879E+05	3.974E+05	4.072E+05
-3	3.686E+05	3.775E+05	3.866E+05
-2	3.504E+05	3.587E+05	3.671E+05
-1	3.333E+05	3.409E+05	3.488E+05
0	3.170E+05	3.241E+05	3.314E+05

T (°C)	Rmin ( $\Omega$ )	Rnom ( $\Omega$ )	Rmax ( $\Omega$ )
0	3.170E+05	3.241E+05	3.314E+05
1	3.017E+05	3.083E+05	3.150E+05
2	2.871E+05	2.933E+05	2.995E+05
3	2.734E+05	2.791E+05	2.849E+05
4	2.603E+05	2.656E+05	2.710E+05
5	2.480E+05	2.529E+05	2.579E+05
6	2.363E+05	2.409E+05	2.455E+05
7	2.252E+05	2.294E+05	2.337E+05
8	2.147E+05	2.186E+05	2.226E+05
9	2.047E+05	2.084E+05	2.120E+05
10	1.953E+05	1.987E+05	2.021E+05
11	1.863E+05	1.894E+05	1.926E+05
12	1.778E+05	1.807E+05	1.836E+05
13	1.697E+05	1.724E+05	1.751E+05
14	1.620E+05	1.645E+05	1.670E+05
15	1.548E+05	1.570E+05	1.594E+05
16	1.478E+05	1.500E+05	1.521E+05
17	1.413E+05	1.432E+05	1.452E+05
18	1.350E+05	1.368E+05	1.386E+05
19	1.291E+05	1.307E+05	1.324E+05
20	1.234E+05	1.249E+05	1.265E+05
21	1.180E+05	1.194E+05	1.209E+05
22	1.129E+05	1.142E+05	1.155E+05
23	1.080E+05	1.092E+05	1.104E+05
24	1.034E+05	1.045E+05	1.056E+05
25	9.900E+04	1.000E+05	1.010E+05
26	9.471E+04	9.571E+04	9.671E+04
27	9.063E+04	9.163E+04	9.263E+04
28	8.675E+04	8.774E+04	8.874E+04
29	8.305E+04	8.404E+04	8.503E+04
30	7.953E+04	8.051E+04	8.150E+04
31	7.618E+04	7.715E+04	7.813E+04
32	7.299E+04	7.395E+04	7.492E+04
33	6.994E+04	7.089E+04	7.185E+04
34	6.704E+04	6.798E+04	6.893E+04
35	6.427E+04	6.520E+04	6.614E+04
36	6.163E+04	6.255E+04	6.347E+04
37	5.911E+04	6.002E+04	6.093E+04
38	5.671E+04	5.760E+04	5.850E+04
39	5.442E+04	5.530E+04	5.618E+04
40	5.223E+04	5.309E+04	5.396E+04
41	5.013E+04	5.099E+04	5.185E+04
42	4.814E+04	4.897E+04	4.982E+04
43	4.623E+04	4.705E+04	4.788E+04
44	4.440E+04	4.521E+04	4.603E+04
45	4.266E+04	4.345E+04	4.426E+04
46	4.099E+04	4.177E+04	4.256E+04
47	3.940E+04	4.016E+04	4.094E+04
48	3.788E+04	3.862E+04	3.938E+04
49	3.642E+04	3.715E+04	3.790E+04
50	3.502E+04	3.574E+04	3.647E+04

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TYPE MH18-3U104F\*

T0 (°C)	T1 (°C)	T2 (°C)
25	25	50

R at T0°C	100000 Ω	R+TOLERANCE (%)	1	R-TOLERANCE (%)	1
B (T1°C/T2°C)	3965 K	B+TOLERANCE (K)	39.65	B-TOLERANCE (K)	39.65

T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
50	3.502E+04	3.574E+04	3.647E+04
51	3.369E+04	3.439E+04	3.511E+04
52	3.241E+04	3.310E+04	3.380E+04
53	3.119E+04	3.186E+04	3.255E+04
54	3.001E+04	3.068E+04	3.135E+04
55	2.889E+04	2.954E+04	3.020E+04
56	2.782E+04	2.845E+04	2.910E+04
57	2.679E+04	2.741E+04	2.804E+04
58	2.580E+04	2.641E+04	2.703E+04
59	2.486E+04	2.545E+04	2.606E+04
60	2.395E+04	2.453E+04	2.512E+04
61	2.308E+04	2.365E+04	2.423E+04
62	2.225E+04	2.280E+04	2.337E+04
63	2.145E+04	2.199E+04	2.255E+04
64	2.068E+04	2.121E+04	2.176E+04
65	1.994E+04	2.047E+04	2.100E+04
66	1.924E+04	1.975E+04	2.027E+04
67	1.856E+04	1.906E+04	1.957E+04
68	1.791E+04	1.840E+04	1.889E+04
69	1.728E+04	1.776E+04	1.825E+04
70	1.668E+04	1.715E+04	1.762E+04
71	1.611E+04	1.656E+04	1.703E+04
72	1.555E+04	1.600E+04	1.645E+04
73	1.502E+04	1.545E+04	1.590E+04
74	1.451E+04	1.493E+04	1.537E+04
75	1.401E+04	1.443E+04	1.485E+04
76	1.354E+04	1.395E+04	1.436E+04
77	1.309E+04	1.348E+04	1.389E+04
78	1.265E+04	1.303E+04	1.343E+04
79	1.223E+04	1.260E+04	1.299E+04
80	1.182E+04	1.219E+04	1.257E+04
81	1.143E+04	1.179E+04	1.216E+04
82	1.105E+04	1.141E+04	1.177E+04
83	1.069E+04	1.104E+04	1.139E+04
84	1.034E+04	1.068E+04	1.103E+04
85	1.001E+04	1.034E+04	1.067E+04
86	9.684E+03	1.001E+04	1.034E+04
87	9.372E+03	9.686E+03	1.001E+04
88	9.072E+03	9.379E+03	9.695E+03
89	8.783E+03	9.083E+03	9.392E+03
90	8.504E+03	8.797E+03	9.099E+03
91	8.236E+03	8.522E+03	8.817E+03
92	7.977E+03	8.256E+03	8.545E+03
93	7.727E+03	8.000E+03	8.282E+03
94	7.486E+03	7.753E+03	8.029E+03
95	7.254E+03	7.515E+03	7.784E+03
96	7.030E+03	7.285E+03	7.548E+03
97	6.813E+03	7.063E+03	7.320E+03
98	6.605E+03	6.848E+03	7.100E+03
99	6.404E+03	6.642E+03	6.888E+03
100	6.209E+03	6.442E+03	6.683E+03

T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
100	6.209E+03	6.442E+03	6.683E+03
101	6.022E+03	6.249E+03	6.484E+03
102	5.841E+03	6.063E+03	6.293E+03
103	5.666E+03	5.883E+03	6.108E+03
104	5.497E+03	5.710E+03	5.929E+03
105	5.334E+03	5.542E+03	5.757E+03
106	5.176E+03	5.379E+03	5.590E+03
107	5.024E+03	5.222E+03	5.428E+03
108	4.877E+03	5.071E+03	5.272E+03
109	4.734E+03	4.924E+03	5.121E+03
110	4.597E+03	4.782E+03	4.975E+03
111	4.463E+03	4.645E+03	4.833E+03
112	4.334E+03	4.512E+03	4.696E+03
113	4.210E+03	4.383E+03	4.563E+03
114	4.089E+03	4.259E+03	4.435E+03
115	3.973E+03	4.138E+03	4.311E+03
116	3.860E+03	4.022E+03	4.191E+03
117	3.751E+03	3.910E+03	4.074E+03
118	3.646E+03	3.801E+03	3.962E+03
119	3.544E+03	3.695E+03	3.853E+03
120	3.445E+03	3.593E+03	3.748E+03
121	3.350E+03	3.495E+03	3.646E+03
122	3.257E+03	3.399E+03	3.547E+03
123	3.168E+03	3.307E+03	3.452E+03
124	3.081E+03	3.217E+03	3.359E+03
125	2.997E+03	3.131E+03	3.269E+03
126	2.916E+03	3.046E+03	3.182E+03
127	2.837E+03	2.965E+03	3.098E+03
128	2.761E+03	2.886E+03	3.016E+03
129	2.687E+03	2.809E+03	2.937E+03
130	2.616E+03	2.735E+03	2.860E+03
131	2.546E+03	2.663E+03	2.785E+03
132	2.479E+03	2.593E+03	2.713E+03
133	2.413E+03	2.525E+03	2.642E+03
134	2.350E+03	2.460E+03	2.574E+03
135	2.288E+03	2.396E+03	2.508E+03
136	2.229E+03	2.334E+03	2.444E+03
137	2.171E+03	2.274E+03	2.382E+03
138	2.115E+03	2.216E+03	2.321E+03
139	2.060E+03	2.159E+03	2.262E+03
140	2.007E+03	2.104E+03	2.205E+03
141	1.956E+03	2.051E+03	2.150E+03
142	1.906E+03	1.999E+03	2.096E+03
143	1.858E+03	1.948E+03	2.044E+03
144	1.811E+03	1.900E+03	1.993E+03
145	1.765E+03	1.852E+03	1.943E+03
146	1.721E+03	1.806E+03	1.895E+03
147	1.678E+03	1.761E+03	1.849E+03
148	1.636E+03	1.718E+03	1.804E+03
149	1.595E+03	1.676E+03	1.760E+03
150	1.556E+03	1.635E+03	1.717E+03