



## NTC THERMISTOR R-T CHARACTERISTICS

TYPE	GR15-7E145F*
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T0 (°C)	T1 (°C)	T2 (°C)
25	25	50

R at T0°C	1388000 Ω	R+TOLERANCE (%)	1	R-TOLERANCE (%)	1
B (T1°C/T2°C)	4460 K	B+TOLERANCE (K)	44.6	B-TOLERANCE (K)	44.6

T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
50	4.270E+05	4.363E+05	4.458E+05
51	4.087E+05	4.178E+05	4.271E+05
52	3.913E+05	4.002E+05	4.093E+05
53	3.748E+05	3.835E+05	3.923E+05
54	3.590E+05	3.675E+05	3.761E+05
55	3.440E+05	3.522E+05	3.606E+05
56	3.296E+05	3.377E+05	3.459E+05
57	3.160E+05	3.238E+05	3.318E+05
58	3.029E+05	3.106E+05	3.184E+05
59	2.905E+05	2.979E+05	3.056E+05
60	2.786E+05	2.859E+05	2.933E+05
61	2.673E+05	2.744E+05	2.816E+05
62	2.565E+05	2.634E+05	2.705E+05
63	2.462E+05	2.529E+05	2.598E+05
64	2.364E+05	2.429E+05	2.496E+05
65	2.269E+05	2.333E+05	2.399E+05
66	2.179E+05	2.242E+05	2.305E+05
67	2.094E+05	2.154E+05	2.216E+05
68	2.011E+05	2.070E+05	2.131E+05
69	1.933E+05	1.990E+05	2.049E+05
70	1.858E+05	1.914E+05	1.971E+05
71	1.786E+05	1.840E+05	1.896E+05
72	1.717E+05	1.770E+05	1.824E+05
73	1.651E+05	1.703E+05	1.756E+05
74	1.588E+05	1.638E+05	1.690E+05
75	1.528E+05	1.577E+05	1.627E+05
76	1.470E+05	1.518E+05	1.567E+05
77	1.415E+05	1.461E+05	1.509E+05
78	1.362E+05	1.407E+05	1.453E+05
79	1.311E+05	1.355E+05	1.400E+05
80	1.262E+05	1.305E+05	1.349E+05
81	1.216E+05	1.257E+05	1.300E+05
82	1.171E+05	1.211E+05	1.253E+05
83	1.128E+05	1.167E+05	1.208E+05
84	1.087E+05	1.125E+05	1.165E+05
85	1.047E+05	1.085E+05	1.123E+05
86	1.009E+05	1.046E+05	1.084E+05
87	9.732E+04	1.009E+05	1.045E+05
88	9.383E+04	9.729E+04	1.009E+05
89	9.049E+04	9.385E+04	9.733E+04
90	8.728E+04	9.055E+04	9.394E+04
91	8.419E+04	8.738E+04	9.068E+04
92	8.123E+04	8.433E+04	8.755E+04
93	7.838E+04	8.141E+04	8.454E+04
94	7.565E+04	7.859E+04	8.164E+04
95	7.303E+04	7.589E+04	7.886E+04
96	7.050E+04	7.330E+04	7.619E+04
97	6.808E+04	7.080E+04	7.362E+04
98	6.575E+04	6.840E+04	7.115E+04
99	6.351E+04	6.609E+04	6.877E+04
100	6.136E+04	6.387E+04	6.648E+04

T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
100	6.136E+04	6.387E+04	6.648E+04
101	5.929E+04	6.174E+04	6.428E+04
102	5.730E+04	5.968E+04	6.216E+04
103	5.538E+04	5.771E+04	6.012E+04
104	5.354E+04	5.580E+04	5.816E+04
105	5.177E+04	5.397E+04	5.627E+04
106	5.006E+04	5.221E+04	5.444E+04
107	4.842E+04	5.051E+04	5.269E+04
108	4.684E+04	4.888E+04	5.100E+04
109	4.532E+04	4.731E+04	4.938E+04
110	4.385E+04	4.579E+04	4.781E+04
111	4.244E+04	4.433E+04	4.630E+04
112	4.108E+04	4.293E+04	4.485E+04
113	3.978E+04	4.157E+04	4.344E+04
114	3.851E+04	4.026E+04	4.209E+04
115	3.730E+04	3.900E+04	4.078E+04
116	3.612E+04	3.779E+04	3.953E+04
117	3.499E+04	3.662E+04	3.831E+04
118	3.390E+04	3.548E+04	3.714E+04
119	3.285E+04	3.439E+04	3.600E+04
120	3.183E+04	3.334E+04	3.491E+04
121	3.085E+04	3.232E+04	3.386E+04
122	2.991E+04	3.134E+04	3.284E+04
123	2.899E+04	3.039E+04	3.185E+04
124	2.811E+04	2.947E+04	3.090E+04
125	2.726E+04	2.859E+04	2.998E+04
126	2.644E+04	2.773E+04	2.909E+04
127	2.564E+04	2.691E+04	2.823E+04
128	2.487E+04	2.611E+04	2.740E+04
129	2.413E+04	2.534E+04	2.660E+04
130	2.342E+04	2.459E+04	2.583E+04
131	2.272E+04	2.387E+04	2.507E+04
132	2.205E+04	2.317E+04	2.435E+04
133	2.140E+04	2.250E+04	2.364E+04
134	2.078E+04	2.184E+04	2.296E+04
135	2.017E+04	2.121E+04	2.231E+04
136	1.959E+04	2.061E+04	2.167E+04
137	1.902E+04	2.002E+04	2.106E+04
138	1.848E+04	1.945E+04	2.047E+04
139	1.795E+04	1.890E+04	1.989E+04
140	1.744E+04	1.836E+04	1.933E+04
141	1.694E+04	1.785E+04	1.880E+04
142	1.647E+04	1.735E+04	1.828E+04
143	1.601E+04	1.687E+04	1.778E+04
144	1.556E+04	1.640E+04	1.729E+04
145	1.513E+04	1.595E+04	1.682E+04
146	1.471E+04	1.551E+04	1.636E+04
147	1.430E+04	1.509E+04	1.592E+04
148	1.391E+04	1.468E+04	1.549E+04
149	1.353E+04	1.428E+04	1.507E+04
150	1.316E+04	1.389E+04	1.467E+04

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B(T1°C/T2°C)	4460 K	B+TOLERANCE (K)	44.6	B-TOLERANCE (K)	44.6

T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
150	1.316E+04	1.389E+04	1.467E+04
151	1.280E+04	1.352E+04	1.427E+04
152	1.246E+04	1.316E+04	1.389E+04
153	1.212E+04	1.280E+04	1.353E+04
154	1.179E+04	1.246E+04	1.317E+04
155	1.148E+04	1.213E+04	1.282E+04
156	1.117E+04	1.181E+04	1.249E+04
157	1.088E+04	1.150E+04	1.216E+04
158	1.059E+04	1.120E+04	1.185E+04
159	1.031E+04	1.091E+04	1.154E+04
160	1.004E+04	1.063E+04	1.124E+04
161	9.779E+03	1.035E+04	1.096E+04
162	9.525E+03	1.009E+04	1.068E+04
163	9.279E+03	9.827E+03	1.041E+04
164	9.040E+03	9.576E+03	1.014E+04
165	8.808E+03	9.332E+03	9.887E+03
166	8.583E+03	9.096E+03	9.639E+03
167	8.364E+03	8.866E+03	9.398E+03
168	8.152E+03	8.644E+03	9.164E+03
169	7.946E+03	8.427E+03	8.936E+03
170	7.746E+03	8.217E+03	8.715E+03
171	7.551E+03	8.012E+03	8.500E+03
172	7.362E+03	7.813E+03	8.291E+03
173	7.179E+03	7.620E+03	8.088E+03
174	7.000E+03	7.433E+03	7.891E+03
175	6.827E+03	7.250E+03	7.699E+03
176	6.659E+03	7.073E+03	7.513E+03
177	6.496E+03	6.901E+03	7.332E+03
178	6.337E+03	6.734E+03	7.156E+03
179	6.183E+03	6.572E+03	6.985E+03
180	6.033E+03	6.414E+03	6.818E+03
181	5.888E+03	6.261E+03	6.657E+03
182	5.747E+03	6.112E+03	6.500E+03
183	5.609E+03	5.967E+03	6.347E+03
184	5.476E+03	5.826E+03	6.199E+03
185	5.346E+03	5.689E+03	6.054E+03
186	5.219E+03	5.556E+03	5.914E+03
187	5.096E+03	5.426E+03	5.777E+03
188	4.977E+03	5.300E+03	5.644E+03
189	4.860E+03	5.177E+03	5.514E+03
190	4.747E+03	5.057E+03	5.387E+03
191	4.636E+03	4.941E+03	5.264E+03
192	4.529E+03	4.827E+03	5.144E+03
193	4.424E+03	4.716E+03	5.028E+03
194	4.322E+03	4.609E+03	4.914E+03
195	4.223E+03	4.504E+03	4.803E+03
196	4.127E+03	4.402E+03	4.696E+03
197	4.033E+03	4.303E+03	4.591E+03
198	3.942E+03	4.207E+03	4.489E+03
199	3.853E+03	4.113E+03	4.389E+03
200	3.766E+03	4.021E+03	4.292E+03

T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
200	3.766E+03	4.021E+03	4.292E+03
201	3.682E+03	3.932E+03	4.198E+03
202	3.600E+03	3.845E+03	4.106E+03
203	3.520E+03	3.760E+03	4.016E+03
204	3.443E+03	3.678E+03	3.929E+03
205	3.367E+03	3.598E+03	3.844E+03
206	3.293E+03	3.520E+03	3.761E+03
207	3.221E+03	3.443E+03	3.681E+03
208	3.151E+03	3.369E+03	3.602E+03
209	3.083E+03	3.297E+03	3.525E+03
210	3.016E+03	3.226E+03	3.451E+03
211	2.952E+03	3.158E+03	3.378E+03
212	2.888E+03	3.091E+03	3.307E+03
213	2.827E+03	3.026E+03	3.238E+03
214	2.767E+03	2.962E+03	3.170E+03
215	2.709E+03	2.900E+03	3.105E+03
216	2.651E+03	2.839E+03	3.040E+03
217	2.596E+03	2.780E+03	2.978E+03
218	2.541E+03	2.723E+03	2.916E+03
219	2.488E+03	2.666E+03	2.857E+03
220	2.437E+03	2.611E+03	2.798E+03
221	2.386E+03	2.558E+03	2.741E+03
222	2.337E+03	2.505E+03	2.685E+03
223	2.289E+03	2.454E+03	2.631E+03
224	2.242E+03	2.404E+03	2.578E+03
225	2.196E+03	2.355E+03	2.526E+03
226	2.151E+03	2.308E+03	2.476E+03
227	2.107E+03	2.261E+03	2.426E+03
228	2.065E+03	2.216E+03	2.378E+03
229	2.023E+03	2.172E+03	2.331E+03
230	1.983E+03	2.129E+03	2.285E+03
231	1.943E+03	2.087E+03	2.240E+03
232	1.905E+03	2.046E+03	2.197E+03
233	1.867E+03	2.006E+03	2.154E+03
234	1.830E+03	1.966E+03	2.112E+03
235	1.794E+03	1.928E+03	2.072E+03
236	1.759E+03	1.891E+03	2.032E+03
237	1.725E+03	1.854E+03	1.993E+03
238	1.691E+03	1.818E+03	1.955E+03
239	1.659E+03	1.783E+03	1.917E+03
240	1.627E+03	1.749E+03	1.881E+03
241	1.595E+03	1.716E+03	1.845E+03
242	1.565E+03	1.683E+03	1.811E+03
243	1.535E+03	1.651E+03	1.777E+03
244	1.505E+03	1.620E+03	1.743E+03
245	1.477E+03	1.590E+03	1.711E+03
246	1.449E+03	1.560E+03	1.679E+03
247	1.421E+03	1.530E+03	1.648E+03
248	1.395E+03	1.502E+03	1.617E+03
249	1.369E+03	1.474E+03	1.587E+03
250	1.343E+03	1.447E+03	1.558E+03

