



## NTC THERMISTOR R-T CHARACTERISTICS

TYPE	GR15-7A103F*
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T0 (°C)	T1 (°C)	T2 (°C)
25	25	50

R at T0°C	10000 Ω	R+TOLERANCE (%)	1	R-TOLERANCE (%)	1
B (T1°C/T2°C)	4397 K	B+TOLERANCE (K)	43.97	B-TOLERANCE (K)	43.97

T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
50	3.127E+03	3.195E+03	3.264E+03
51	2.998E+03	3.064E+03	3.132E+03
52	2.875E+03	2.940E+03	3.006E+03
53	2.758E+03	2.821E+03	2.885E+03
54	2.646E+03	2.708E+03	2.771E+03
55	2.539E+03	2.600E+03	2.661E+03
56	2.438E+03	2.497E+03	2.557E+03
57	2.341E+03	2.398E+03	2.457E+03
58	2.248E+03	2.304E+03	2.362E+03
59	2.160E+03	2.215E+03	2.271E+03
60	2.075E+03	2.129E+03	2.184E+03
61	1.995E+03	2.047E+03	2.101E+03
62	1.918E+03	1.969E+03	2.022E+03
63	1.845E+03	1.895E+03	1.946E+03
64	1.774E+03	1.823E+03	1.873E+03
65	1.707E+03	1.755E+03	1.804E+03
66	1.643E+03	1.690E+03	1.737E+03
67	1.582E+03	1.627E+03	1.674E+03
68	1.523E+03	1.567E+03	1.613E+03
69	1.467E+03	1.510E+03	1.554E+03
70	1.413E+03	1.455E+03	1.499E+03
71	1.362E+03	1.403E+03	1.445E+03
72	1.312E+03	1.353E+03	1.394E+03
73	1.265E+03	1.304E+03	1.345E+03
74	1.220E+03	1.258E+03	1.298E+03
75	1.177E+03	1.214E+03	1.252E+03
76	1.135E+03	1.172E+03	1.209E+03
77	1.095E+03	1.131E+03	1.168E+03
78	1.057E+03	1.092E+03	1.128E+03
79	1.021E+03	1.054E+03	1.089E+03
80	9.854E+02	1.018E+03	1.053E+03
81	9.517E+02	9.840E+02	1.017E+03
82	9.193E+02	9.508E+02	9.833E+02
83	8.882E+02	9.190E+02	9.507E+02
84	8.583E+02	8.884E+02	9.194E+02
85	8.296E+02	8.590E+02	8.893E+02
86	8.021E+02	8.307E+02	8.603E+02
87	7.756E+02	8.035E+02	8.324E+02
88	7.501E+02	7.774E+02	8.057E+02
89	7.256E+02	7.523E+02	7.799E+02
90	7.021E+02	7.281E+02	7.551E+02
91	6.794E+02	7.049E+02	7.312E+02
92	6.576E+02	6.825E+02	7.082E+02
93	6.367E+02	6.610E+02	6.861E+02
94	6.165E+02	6.402E+02	6.648E+02
95	5.971E+02	6.203E+02	6.443E+02
96	5.784E+02	6.010E+02	6.245E+02
97	5.604E+02	5.825E+02	6.055E+02
98	5.430E+02	5.647E+02	5.871E+02
99	5.263E+02	5.474E+02	5.694E+02
100	5.102E+02	5.309E+02	5.523E+02

T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
100	5.102E+02	5.309E+02	5.523E+02
101	4.947E+02	5.149E+02	5.358E+02
102	4.797E+02	4.995E+02	5.200E+02
103	4.653E+02	4.846E+02	5.046E+02
104	4.514E+02	4.702E+02	4.899E+02
105	4.380E+02	4.564E+02	4.756E+02
106	4.250E+02	4.431E+02	4.618E+02
107	4.125E+02	4.302E+02	4.485E+02
108	4.005E+02	4.177E+02	4.357E+02
109	3.888E+02	4.057E+02	4.233E+02
110	3.776E+02	3.941E+02	4.113E+02
111	3.668E+02	3.829E+02	3.997E+02
112	3.563E+02	3.721E+02	3.885E+02
113	3.462E+02	3.616E+02	3.777E+02
114	3.364E+02	3.515E+02	3.672E+02
115	3.269E+02	3.417E+02	3.571E+02
116	3.178E+02	3.323E+02	3.474E+02
117	3.090E+02	3.231E+02	3.379E+02
118	3.004E+02	3.143E+02	3.288E+02
119	2.922E+02	3.058E+02	3.199E+02
120	2.842E+02	2.975E+02	3.114E+02
121	2.765E+02	2.895E+02	3.031E+02
122	2.690E+02	2.818E+02	2.951E+02
123	2.618E+02	2.743E+02	2.873E+02
124	2.548E+02	2.670E+02	2.798E+02
125	2.481E+02	2.600E+02	2.725E+02
126	2.415E+02	2.532E+02	2.655E+02
127	2.352E+02	2.466E+02	2.586E+02
128	2.290E+02	2.402E+02	2.520E+02
129	2.230E+02	2.341E+02	2.456E+02
130	2.173E+02	2.281E+02	2.394E+02
131	2.117E+02	2.222E+02	2.333E+02
132	2.062E+02	2.166E+02	2.275E+02
133	2.010E+02	2.111E+02	2.218E+02
134	1.959E+02	2.058E+02	2.163E+02
135	1.909E+02	2.007E+02	2.109E+02
136	1.861E+02	1.957E+02	2.057E+02
137	1.815E+02	1.909E+02	2.007E+02
138	1.770E+02	1.862E+02	1.958E+02
139	1.726E+02	1.816E+02	1.911E+02
140	1.684E+02	1.772E+02	1.865E+02
141	1.643E+02	1.729E+02	1.820E+02
142	1.603E+02	1.688E+02	1.777E+02
143	1.564E+02	1.647E+02	1.735E+02
144	1.526E+02	1.608E+02	1.694E+02
145	1.490E+02	1.570E+02	1.654E+02
146	1.454E+02	1.533E+02	1.616E+02
147	1.420E+02	1.497E+02	1.578E+02
148	1.386E+02	1.462E+02	1.542E+02
149	1.354E+02	1.428E+02	1.506E+02
150	1.322E+02	1.395E+02	1.472E+02

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B(T1°C/T2°C)	4397 K	B+TOLERANCE (K)	43.97	B-TOLERANCE (K)	43.97

T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
150	1.322E+02	1.395E+02	1.472E+02
151	1.291E+02	1.363E+02	1.438E+02
152	1.261E+02	1.332E+02	1.405E+02
153	1.232E+02	1.301E+02	1.374E+02
154	1.204E+02	1.272E+02	1.343E+02
155	1.177E+02	1.243E+02	1.313E+02
156	1.150E+02	1.215E+02	1.284E+02
157	1.124E+02	1.188E+02	1.255E+02
158	1.099E+02	1.161E+02	1.228E+02
159	1.074E+02	1.136E+02	1.201E+02
160	1.050E+02	1.111E+02	1.175E+02
161	1.027E+02	1.086E+02	1.149E+02
162	1.004E+02	1.063E+02	1.124E+02
163	9.823E+01	1.040E+02	1.100E+02
164	9.608E+01	1.017E+02	1.077E+02
165	9.400E+01	9.953E+01	1.054E+02
166	9.197E+01	9.740E+01	1.031E+02
167	8.999E+01	9.533E+01	1.010E+02
168	8.807E+01	9.331E+01	9.886E+01
169	8.620E+01	9.135E+01	9.680E+01
170	8.437E+01	8.944E+01	9.480E+01
171	8.259E+01	8.757E+01	9.284E+01
172	8.086E+01	8.576E+01	9.094E+01
173	7.918E+01	8.399E+01	8.908E+01
174	7.753E+01	8.226E+01	8.727E+01
175	7.593E+01	8.058E+01	8.550E+01
176	7.437E+01	7.894E+01	8.378E+01
177	7.285E+01	7.734E+01	8.211E+01
178	7.137E+01	7.579E+01	8.047E+01
179	6.992E+01	7.427E+01	7.887E+01
180	6.851E+01	7.279E+01	7.732E+01
181	6.714E+01	7.134E+01	7.580E+01
182	6.580E+01	6.993E+01	7.432E+01
183	6.449E+01	6.856E+01	7.287E+01
184	6.322E+01	6.722E+01	7.146E+01
185	6.197E+01	6.591E+01	7.009E+01
186	6.076E+01	6.463E+01	6.874E+01
187	5.958E+01	6.339E+01	6.743E+01
188	5.842E+01	6.217E+01	6.615E+01
189	5.730E+01	6.098E+01	6.490E+01
190	5.620E+01	5.983E+01	6.368E+01
191	5.513E+01	5.870E+01	6.250E+01
192	5.408E+01	5.760E+01	6.133E+01
193	5.306E+01	5.652E+01	6.020E+01
194	5.206E+01	5.547E+01	5.909E+01
195	5.108E+01	5.444E+01	5.801E+01
196	5.013E+01	5.343E+01	5.695E+01
197	4.920E+01	5.245E+01	5.591E+01
198	4.829E+01	5.149E+01	5.490E+01
199	4.740E+01	5.055E+01	5.391E+01
200	4.653E+01	4.963E+01	5.294E+01

T (°C)	Rmin (Ω)	Rnom (Ω)	Rmax (Ω)
200	4.653E+01	4.963E+01	5.294E+01
201	4.567E+01	4.873E+01	5.199E+01
202	4.484E+01	4.785E+01	5.106E+01
203	4.402E+01	4.699E+01	5.015E+01
204	4.323E+01	4.615E+01	4.926E+01
205	4.245E+01	4.533E+01	4.839E+01
206	4.169E+01	4.452E+01	4.754E+01
207	4.095E+01	4.374E+01	4.671E+01
208	4.022E+01	4.297E+01	4.590E+01
209	3.951E+01	4.222E+01	4.511E+01
210	3.881E+01	4.148E+01	4.433E+01
211	3.813E+01	4.076E+01	4.357E+01
212	3.747E+01	4.006E+01	4.283E+01
213	3.682E+01	3.937E+01	4.210E+01
214	3.618E+01	3.870E+01	4.139E+01
215	3.556E+01	3.804E+01	4.069E+01
216	3.495E+01	3.739E+01	4.001E+01
217	3.435E+01	3.676E+01	3.934E+01
218	3.377E+01	3.615E+01	3.869E+01
219	3.320E+01	3.554E+01	3.805E+01
220	3.264E+01	3.495E+01	3.742E+01
221	3.210E+01	3.437E+01	3.681E+01
222	3.156E+01	3.381E+01	3.621E+01
223	3.104E+01	3.325E+01	3.562E+01
224	3.053E+01	3.271E+01	3.505E+01
225	3.003E+01	3.218E+01	3.448E+01
226	2.953E+01	3.166E+01	3.393E+01
227	2.905E+01	3.115E+01	3.339E+01
228	2.858E+01	3.065E+01	3.286E+01
229	2.812E+01	3.016E+01	3.234E+01
230	2.766E+01	2.967E+01	3.183E+01
231	2.722E+01	2.920E+01	3.132E+01
232	2.678E+01	2.874E+01	3.083E+01
233	2.635E+01	2.828E+01	3.035E+01
234	2.593E+01	2.783E+01	2.987E+01
235	2.552E+01	2.740E+01	2.941E+01
236	2.512E+01	2.697E+01	2.896E+01
237	2.472E+01	2.655E+01	2.851E+01
238	2.433E+01	2.614E+01	2.807E+01
239	2.395E+01	2.573E+01	2.764E+01
240	2.358E+01	2.534E+01	2.722E+01
241	2.322E+01	2.495E+01	2.681E+01
242	2.286E+01	2.457E+01	2.641E+01
243	2.251E+01	2.420E+01	2.601E+01
244	2.217E+01	2.383E+01	2.562E+01
245	2.183E+01	2.347E+01	2.524E+01
246	2.150E+01	2.312E+01	2.487E+01
247	2.117E+01	2.278E+01	2.450E+01
248	2.086E+01	2.244E+01	2.414E+01
249	2.054E+01	2.211E+01	2.379E+01
250	2.024E+01	2.178E+01	2.344E+01

