



# 104NT-4-R025H42G

## TEMPERATURE VS RESISTANCE CHARACTERISTICS [ITS-90]

Resistance 100.0 kohms at 25 Degree C  
 Resistance Tolerance  $\pm 3\%$   
 B Value 4 267 K at 25/85 Degree C  
 B Value Tolerance  $\pm 2\%$

<u>Temp. (deg C)</u>	<u>Rmax. (kohms)</u>	<u>Rst. (kohms)</u>	<u>Rmin. (kohms)</u>	<u>Tolerance (deg C)</u>
-50	10020	8887	7880	-1.6 + 1.6
-49	9265	8236	7313	-1.6 + 1.6
-48	8579	7637	6792	-1.6 + 1.6
-47	7949	7087	6312	-1.6 + 1.6
-46	7370	6580	5870	-1.6 + 1.6
-45	6838	6114	5462	-1.6 + 1.6
-44	6349	5685	5086	-1.6 + 1.6
-43	5898	5289	4738	-1.6 + 1.6
-42	5483	4923	4417	-1.5 + 1.6
-41	5100	4586	4120	-1.5 + 1.6
-40	4747	4275	3846	-1.5 + 1.5
-39	4415	3981	3587	-1.5 + 1.5
-38	4109	3711	3348	-1.5 + 1.5
-37	3826	3460	3126	-1.5 + 1.5
-36	3565	3229	2921	-1.5 + 1.5
-35	3324	3014	2731	-1.5 + 1.5
-34	3101	2816	2554	-1.5 + 1.5
-33	2895	2632	2391	-1.5 + 1.5
-32	2703	2461	2239	-1.4 + 1.5
-31	2526	2303	2098	-1.4 + 1.5
-30	2362	2156	1966	-1.4 + 1.4
-29	2207	2018	1843	-1.4 + 1.4
-28	2064	1889	1727	-1.4 + 1.4
-27	1931	1770	1620	-1.4 + 1.4
-26	1807	1658	1520	-1.4 + 1.4
-25	1693	1555	1427	-1.4 + 1.4
-24	1586	1459	1341	-1.4 + 1.4
-23	1487	1370	1260	-1.3 + 1.4
-22	1395	1286	1185	-1.3 + 1.4
-21	1309	1209	1115	-1.3 + 1.3
-20	1229	1136	1049	-1.3 + 1.3
-19	1154	1068	987.8	-1.3 + 1.3
-18	1083	1004	929.8	-1.3 + 1.3
-17	1018	944.2	875.6	-1.3 + 1.3
-16	956.2	888.6	825.0	-1.3 + 1.3
-15	899.2	836.6	777.7	-1.2 + 1.3
-14	845.9	788.0	733.4	-1.2 + 1.3
-13	796.3	742.6	692.0	-1.2 + 1.2
-12	749.8	700.2	653.2	-1.2 + 1.2
-11	706.4	660.4	616.8	-1.2 + 1.2
-10	665.9	623.2	582.7	-1.2 + 1.2



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<u>Temp. (deg C)</u>	<u>Rmax. (kohms)</u>	<u>Rst. (kohms)</u>	<u>Rmin. (kohms)</u>	<u>Tolerance (deg C)</u>
-9	627.4	587.9	550.4	-1.2 + 1.2
-8	591.5	554.8	520.0	-1.2 + 1.2
-7	557.8	523.9	491.5	-1.1 + 1.2
-6	526.3	494.8	464.8	-1.1 + 1.2
-5	496.8	467.6	439.8	-1.1 + 1.1
-4	469.1	442.1	416.2	-1.1 + 1.1
-3	443.2	418.1	394.1	-1.1 + 1.1
-2	418.9	395.6	373.3	-1.1 + 1.1
-1	396.1	374.5	353.7	-1.1 + 1.1
0	374.6	354.6	335.3	-1.1 + 1.1
1	354.3	335.7	317.8	-1.0 + 1.1
2	335.2	318.0	301.3	-1.0 + 1.0
3	317.3	301.3	285.8	-1.0 + 1.0
4	300.5	285.6	271.2	-1.0 + 1.0
5	284.6	270.8	257.5	-1.0 + 1.0
6	269.7	256.9	244.5	-1.0 + 1.0
7	255.7	243.8	232.3	-1.0 + 1.0
8	242.5	231.5	220.7	-0.9 + 1.0
9	230.0	219.8	209.8	-0.9 + 1.0
10	218.3	208.8	199.6	-0.9 + 0.9
11	207.2	198.4	189.8	-0.9 + 0.9
12	196.7	188.5	180.5	-0.9 + 0.9
13	186.8	179.2	171.8	-0.9 + 0.9
14	177.5	170.4	163.5	-0.9 + 0.9
15	168.6	162.1	155.7	-0.8 + 0.9
16	160.3	154.3	148.3	-0.8 + 0.8
17	152.5	146.8	141.3	-0.8 + 0.8
18	145.0	139.8	134.7	-0.8 + 0.8
19	138.0	133.2	128.4	-0.8 + 0.8
20	131.4	126.9	122.5	-0.8 + 0.8
21	125.1	120.9	116.8	-0.7 + 0.8
22	119.1	115.3	111.4	-0.7 + 0.7
23	113.5	109.9	106.4	-0.7 + 0.7
24	108.1	104.8	101.5	-0.7 + 0.7
25	103.0	100.0	97.00	-0.7 + 0.7
26	98.38	95.42	92.46	-0.7 + 0.7
27	93.98	91.07	88.17	-0.7 + 0.7
28	89.81	86.95	84.10	-0.7 + 0.8
29	85.85	83.04	80.25	-0.8 + 0.8
30	82.10	79.33	76.59	-0.8 + 0.8
31	78.50	75.79	73.10	-0.8 + 0.8



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<u>Temp. (deg C)</u>	<u>Rmax. ( kohms)</u>	<u>Rst. ( kohms)</u>	<u>Rmin. ( kohms)</u>	<u>Tolerance (deg C)</u>
32	75.09	72.42	69.80	-0.8 + 0.9
33	71.84	69.23	66.66	-0.9 + 0.9
34	68.75	66.20	63.68	-0.9 + 0.9
35	65.82	63.32	60.85	-0.9 + 0.9
36	63.03	60.58	58.17	-0.9 + 1.0
37	60.37	57.97	55.62	-1.0 + 1.0
38	57.84	55.50	53.20	-1.0 + 1.0
39	55.44	53.14	50.89	-1.0 + 1.1
40	53.15	50.90	48.71	-1.0 + 1.1
41	50.94	48.75	46.61	-1.1 + 1.1
42	48.85	46.70	44.61	-1.1 + 1.1
43	46.85	44.75	42.71	-1.1 + 1.1
44	44.94	42.89	40.90	-1.1 + 1.2
45	43.12	41.13	39.18	-1.2 + 1.2
46	41.39	39.44	37.55	-1.2 + 1.2
47	39.74	37.83	35.99	-1.2 + 1.3
48	38.16	36.30	34.50	-1.3 + 1.3
49	36.66	34.84	33.09	-1.3 + 1.3
50	35.22	33.45	31.74	-1.3 + 1.3
51	33.84	32.11	30.44	-1.3 + 1.4
52	32.52	30.83	29.21	-1.4 + 1.4
53	31.26	29.62	28.03	-1.4 + 1.4
54	30.06	28.45	26.91	-1.4 + 1.4
55	28.91	27.34	25.84	-1.4 + 1.5
56	27.81	26.28	24.81	-1.5 + 1.5
57	26.75	25.27	23.84	-1.5 + 1.5
58	25.75	24.30	22.90	-1.5 + 1.6
59	24.79	23.37	22.01	-1.6 + 1.6
60	23.86	22.48	21.16	-1.6 + 1.6
61	22.98	21.63	20.34	-1.6 + 1.6
62	22.13	20.82	19.56	-1.6 + 1.7
63	21.32	20.04	18.81	-1.7 + 1.7
64	20.54	19.29	18.10	-1.7 + 1.7
65	19.79	18.57	17.42	-1.7 + 1.8
66	19.08	17.89	16.76	-1.8 + 1.8
67	18.39	17.24	16.14	-1.8 + 1.8
68	17.74	16.61	15.54	-1.8 + 1.9
69	17.11	16.01	14.96	-1.8 + 1.9
70	16.50	15.43	14.41	-1.9 + 1.9
71	15.92	14.88	13.88	-1.9 + 1.9
72	15.36	14.34	13.38	-1.9 + 2.0



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73	14.83	13.83	12.89	-2.0 + 2.0
74	14.31	13.34	12.43	-2.0 + 2.0
75	13.82	12.88	11.98	-2.0 + 2.1
76	13.35	12.42	11.55	-2.0 + 2.1
77	12.89	11.99	11.14	-2.1 + 2.1
78	12.46	11.58	10.75	-2.1 + 2.2
79	12.04	11.18	10.37	-2.1 + 2.2
80	11.63	10.80	10.01	-2.2 + 2.2
81	11.24	10.43	9.669	-2.2 + 2.2
82	10.87	10.08	9.334	-2.2 + 2.3
83	10.51	9.735	9.012	-2.3 + 2.3
84	10.16	9.408	8.704	-2.3 + 2.3
85	9.827	9.094	8.407	-2.3 + 2.4
86	9.506	8.790	8.122	-2.4 + 2.4
87	9.197	8.499	7.847	-2.4 + 2.4
88	8.900	8.219	7.583	-2.4 + 2.5
89	8.613	7.949	7.329	-2.4 + 2.5
90	8.338	7.690	7.085	-2.5 + 2.5
91	8.072	7.440	6.850	-2.5 + 2.6
92	7.816	7.199	6.624	-2.5 + 2.6
93	7.569	6.967	6.407	-2.6 + 2.6
94	7.332	6.744	6.198	-2.6 + 2.7
95	7.103	6.530	5.997	-2.6 + 2.7
96	6.883	6.323	5.803	-2.7 + 2.7
97	6.670	6.124	5.617	-2.7 + 2.8
98	6.465	5.932	5.437	-2.7 + 2.8
99	6.268	5.747	5.264	-2.8 + 2.8
100	6.077	5.569	5.098	-2.8 + 2.9
101	5.893	5.396	4.937	-2.8 + 2.9
102	5.715	5.230	4.782	-2.9 + 2.9
103	5.544	5.070	4.633	-2.9 + 3.0
104	5.378	4.916	4.489	-2.9 + 3.0
105	5.218	4.767	4.350	-3.0 + 3.0
106	5.064	4.623	4.216	-3.0 + 3.1
107	4.915	4.484	4.087	-3.0 + 3.1
108	4.772	4.351	3.963	-3.1 + 3.2
109	4.633	4.221	3.843	-3.1 + 3.2
110	4.499	4.097	3.727	-3.2 + 3.2
111	4.369	3.976	3.615	-3.2 + 3.3
112	4.243	3.859	3.507	-3.2 + 3.3
113	4.121	3.747	3.403	-3.2 + 3.3



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114	4.004	3.638	3.302	-3.3 + 3.4
115	3.891	3.533	3.205	-3.3 + 3.4
116	3.781	3.431	3.111	-3.4 + 3.4
117	3.675	3.333	3.020	-3.4 + 3.5
118	3.573	3.238	2.932	-3.4 + 3.5
119	3.473	3.146	2.847	-3.5 + 3.5
120	3.377	3.058	2.766	-3.5 + 3.6
121	3.284	2.972	2.686	-3.5 + 3.6
122	3.194	2.888	2.609	-3.6 + 3.7
123	3.107	2.808	2.535	-3.6 + 3.7
124	3.022	2.730	2.463	-3.6 + 3.7
125	2.940	2.655	2.394	-3.7 + 3.8
126	2.861	2.582	2.327	-3.7 + 3.8
127	2.785	2.511	2.262	-3.8 + 3.8
128	2.710	2.443	2.199	-3.8 + 3.9
129	2.639	2.377	2.139	-3.8 + 3.9
130	2.569	2.313	2.080	-3.9 + 4.0
131	2.501	2.250	2.023	-3.9 + 4.0
132	2.435	2.190	1.967	-3.9 + 4.0
133	2.372	2.132	1.914	-4.0 + 4.1
134	2.310	2.075	1.862	-4.0 + 4.1
135	2.250	2.020	1.812	-4.0 + 4.2
136	2.192	1.967	1.763	-4.1 + 4.2
137	2.136	1.916	1.716	-4.1 + 4.2
138	2.081	1.866	1.671	-4.2 + 4.3
139	2.029	1.817	1.627	-4.2 + 4.3
140	1.977	1.770	1.584	-4.2 + 4.3
141	1.927	1.725	1.542	-4.3 + 4.4
142	1.879	1.681	1.502	-4.3 + 4.4
143	1.832	1.638	1.463	-4.3 + 4.5
144	1.786	1.596	1.425	-4.4 + 4.5
145	1.742	1.556	1.388	-4.4 + 4.6
146	1.699	1.517	1.353	-4.5 + 4.6
147	1.658	1.479	1.318	-4.5 + 4.6
148	1.617	1.442	1.285	-4.5 + 4.7
149	1.578	1.406	1.252	-4.6 + 4.7
150	1.540	1.371	1.220	-4.6 + 4.8
151	1.503	1.338	1.190	-4.7 + 4.8
152	1.466	1.305	1.160	-4.7 + 4.8
153	1.431	1.273	1.131	-4.7 + 4.9
154	1.397	1.242	1.103	-4.8 + 4.9



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<u>Temp. (deg C)</u>	<u>Rmax. (kohms)</u>	<u>Rst. (kohms)</u>	<u>Rmin. (kohms)</u>	<u>Tolerance (deg C)</u>
155	1.364	1.212	1.076	-4.8 + 5.0
156	1.332	1.183	1.049	-4.9 + 5.0
157	1.301	1.155	1.024	-4.9 + 5.0
158	1.270	1.127	0.9993	-4.9 + 5.1
159	1.241	1.100	0.9751	-5.0 + 5.1
160	1.212	1.074	0.9516	-5.0 + 5.2
161	1.184	1.049	0.9287	-5.1 + 5.2
162	1.157	1.024	0.9065	-5.1 + 5.3
163	1.130	1.000	0.8849	-5.1 + 5.3
164	1.104	0.9770	0.8639	-5.2 + 5.3
165	1.079	0.9544	0.8434	-5.2 + 5.4
166	1.055	0.9323	0.8236	-5.3 + 5.4
167	1.031	0.9109	0.8043	-5.3 + 5.5
168	1.008	0.8901	0.7855	-5.4 + 5.5
169	0.9851	0.8698	0.7673	-5.4 + 5.6
170	0.9633	0.8501	0.7496	-5.4 + 5.6
171	0.9419	0.8309	0.7323	-5.5 + 5.6
172	0.9211	0.8122	0.7154	-5.5 + 5.7
173	0.9009	0.7939	0.6991	-5.6 + 5.7
174	0.8811	0.7762	0.6832	-5.6 + 5.8
175	0.8619	0.7590	0.6677	-5.7 + 5.8
176	0.8432	0.7422	0.6526	-5.7 + 5.9
177	0.8250	0.7258	0.6379	-5.7 + 5.9
178	0.8073	0.7099	0.6237	-5.8 + 6.0
179	0.7900	0.6944	0.6098	-5.8 + 6.0
180	0.7732	0.6793	0.5962	-5.9 + 6.0
181	0.7567	0.6645	0.5830	-5.9 + 6.1
182	0.7406	0.6501	0.5702	-6.0 + 6.1
183	0.7250	0.6361	0.5576	-6.0 + 6.2
184	0.7097	0.6225	0.5454	-6.0 + 6.2
185	0.6949	0.6092	0.5335	-6.1 + 6.3
186	0.6804	0.5962	0.5220	-6.1 + 6.3
187	0.6663	0.5836	0.5107	-6.2 + 6.4
188	0.6525	0.5713	0.4997	-6.2 + 6.4
189	0.6391	0.5593	0.4890	-6.3 + 6.5
190	0.6260	0.5476	0.4786	-6.3 + 6.5
191	0.6132	0.5362	0.4684	-6.3 + 6.6
192	0.6007	0.5250	0.4585	-6.4 + 6.6
193	0.5885	0.5141	0.4488	-6.4 + 6.7
194	0.5766	0.5035	0.4393	-6.5 + 6.7
195	0.5650	0.4932	0.4301	-6.5 + 6.7



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196	0.5537	0.4831	0.4212	-6.6 + 6.8
197	0.5426	0.4733	0.4124	-6.6 + 6.8
198	0.5318	0.4637	0.4039	-6.7 + 6.9
199	0.5213	0.4543	0.3956	-6.7 + 6.9
200	0.5111	0.4452	0.3875	-6.8 + 7.0
201	0.5010	0.4363	0.3796	-6.8 + 7.0
202	0.4912	0.4276	0.3718	-6.8 + 7.1
203	0.4816	0.4191	0.3643	-6.9 + 7.1
204	0.4723	0.4108	0.3569	-6.9 + 7.2
205	0.4632	0.4027	0.3498	-7.0 + 7.2
206	0.4543	0.3948	0.3428	-7.0 + 7.3
207	0.4456	0.3871	0.3359	-7.1 + 7.3
208	0.4371	0.3795	0.3293	-7.1 + 7.4
209	0.4288	0.3722	0.3227	-7.2 + 7.4
210	0.4206	0.3650	0.3164	-7.2 + 7.5
211	0.4127	0.3580	0.3102	-7.3 + 7.5
212	0.4050	0.3511	0.3041	-7.3 + 7.6
213	0.3974	0.3444	0.2982	-7.4 + 7.6
214	0.3900	0.3378	0.2924	-7.4 + 7.7
215	0.3827	0.3314	0.2868	-7.5 + 7.7
216	0.3757	0.3252	0.2812	-7.5 + 7.8
217	0.3687	0.3191	0.2758	-7.6 + 7.8
218	0.3620	0.3131	0.2706	-7.6 + 7.9
219	0.3554	0.3073	0.2654	-7.7 + 8.0
220	0.3489	0.3016	0.2604	-7.7 + 8.0
221	0.3426	0.2960	0.2555	-7.8 + 8.1
222	0.3364	0.2905	0.2507	-7.8 + 8.1
223	0.3303	0.2852	0.2460	-7.9 + 8.2
224	0.3244	0.2800	0.2414	-7.9 + 8.2
225	0.3186	0.2749	0.2369	-8.0 + 8.3
226	0.3130	0.2699	0.2325	-8.0 + 8.3
227	0.3074	0.2650	0.2283	-8.1 + 8.4
228	0.3020	0.2602	0.2241	-8.1 + 8.4
229	0.2967	0.2556	0.2200	-8.2 + 8.5
230	0.2915	0.2510	0.2160	-8.2 + 8.5
231	0.2864	0.2465	0.2120	-8.3 + 8.6
232	0.2814	0.2422	0.2082	-8.3 + 8.6
233	0.2765	0.2379	0.2044	-8.4 + 8.7
234	0.2718	0.2337	0.2008	-8.4 + 8.7
235	0.2671	0.2296	0.1972	-8.5 + 8.8
236	0.2625	0.2256	0.1937	-8.5 + 8.9



# 104NT-4-R025H42G

## TEMPERATURE VS RESISTANCE CHARACTERISTICS [ITS-90]

Resistance 100.0 kohms at 25 Degree C  
 Resistance Tolerance  $\pm 3\%$   
 B Value 4 267 K at 25/85 Degree C  
 B Value Tolerance  $\pm 2\%$

<u>Temp. (deg C)</u>	<u>Rmax. (kohms)</u>	<u>Rst. (kohms)</u>	<u>Rmin. (kohms)</u>	<u>Tolerance (deg C)</u>
237	0.2581	0.2217	0.1902	-8.6 + 8.9
238	0.2537	0.2178	0.1869	-8.6 + 9.0
239	0.2494	0.2141	0.1836	-8.7 + 9.0
240	0.2452	0.2104	0.1804	-8.7 + 9.1
241	0.2411	0.2068	0.1772	-8.8 + 9.1
242	0.2370	0.2032	0.1741	-8.8 + 9.2
243	0.2331	0.1998	0.1711	-8.9 + 9.2
244	0.2292	0.1964	0.1681	-8.9 + 9.3
245	0.2254	0.1931	0.1652	-9.0 + 9.4
246	0.2217	0.1898	0.1624	-9.0 + 9.4
247	0.2180	0.1867	0.1596	-9.1 + 9.5
248	0.2145	0.1835	0.1569	-9.1 + 9.5
249	0.2110	0.1805	0.1542	-9.2 + 9.6
250	0.2076	0.1775	0.1516	-9.3 + 9.6
251	0.2042	0.1746	0.1491	-9.3 + 9.7
252	0.2009	0.1717	0.1466	-9.4 + 9.7
253	0.1977	0.1689	0.1441	-9.4 + 9.8
254	0.1945	0.1661	0.1417	-9.5 + 9.9
255	0.1914	0.1634	0.1394	-9.5 + 9.9
256	0.1884	0.1608	0.1371	-9.6 + 10.0
257	0.1854	0.1582	0.1348	-9.6 + 10.0
258	0.1825	0.1556	0.1326	-9.7 + 10.1
259	0.1796	0.1531	0.1304	-9.7 + 10.2
260	0.1768	0.1507	0.1283	-9.8 + 10.2
261	0.1740	0.1483	0.1262	-9.8 + 10.3
262	0.1713	0.1459	0.1242	-9.9 + 10.3
263	0.1687	0.1436	0.1222	-10.0 + 10.4
264	0.1661	0.1414	0.1202	-10.0 + 10.4
265	0.1635	0.1391	0.1183	-10.1 + 10.5
266	0.1610	0.1370	0.1164	-10.1 + 10.6
267	0.1585	0.1348	0.1145	-10.2 + 10.6
268	0.1561	0.1327	0.1127	-10.2 + 10.7
269	0.1538	0.1307	0.1109	-10.3 + 10.7
270	0.1514	0.1287	0.1092	-10.3 + 10.8
271	0.1492	0.1267	0.1075	-10.4 + 10.9
272	0.1469	0.1248	0.1058	-10.5 + 10.9
273	0.1447	0.1228	0.1042	-10.5 + 11.0
274	0.1426	0.1210	0.1025	-10.6 + 11.0
275	0.1405	0.1191	0.1010	-10.6 + 11.1
276	0.1384	0.1174	0.09946	-10.7 + 11.2
277	0.1363	0.1156	0.09793	-10.7 + 11.2





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278	0.1343	0.1139	0.09644	-10.8 + 11.3
279	0.1324	0.1122	0.09497	-10.9 + 11.4
280	0.1305	0.1105	0.09353	-10.9 + 11.4
281	0.1286	0.1089	0.09211	-11.0 + 11.5
282	0.1267	0.1072	0.09073	-11.0 + 11.5
283	0.1249	0.1057	0.08937	-11.1 + 11.6
284	0.1231	0.1041	0.08803	-11.1 + 11.7
285	0.1213	0.1026	0.08672	-11.2 + 11.7
286	0.1196	0.1011	0.08543	-11.3 + 11.8
287	0.1179	0.09964	0.08417	-11.3 + 11.9
288	0.1162	0.09820	0.08293	-11.4 + 11.9
289	0.1146	0.09678	0.08171	-11.4 + 12.0
290	0.1130	0.09539	0.08051	-11.5 + 12.0
291	0.1114	0.09403	0.07934	-11.6 + 12.1
292	0.1098	0.09269	0.07818	-11.6 + 12.2
293	0.1083	0.09137	0.07705	-11.7 + 12.2
294	0.1068	0.09008	0.07594	-11.7 + 12.3
295	0.1053	0.08881	0.07485	-11.8 + 12.4
296	0.1039	0.08756	0.07377	-11.9 + 12.4
297	0.1024	0.08633	0.07272	-11.9 + 12.5
298	0.1010	0.08513	0.07168	-12.0 + 12.6
299	0.09963	0.08394	0.07067	-12.0 + 12.6
300	0.09827	0.08278	0.06967	-12.1 + 12.7