R-T Characteristics

Sensor Type	Nominal Resistance	Sensitivity	E+E Order Code
NTC2.2k	R_{25}: 2.252 kΩ ± 0.2 °C	$B_{25/85}$: 3977 K ± 0.3 %	TP21

Tabulated R-T Characteristics

- According to supplier‘s specifications

T [°C]	R_{min} [Ω]	R_{center} [Ω]	R_{max} [Ω]
-40	72963.23	75491.04	78018.85
-39	68353.74	70662.56	72971.37
-38	64064.31	66172.84	68281.37
-37	60070.85	61996.17	63921.48
-36	56351.23	58108.91	59866.59
-35	52885.07	54489.35	56093.63
-34	49653.65	51117.52	52581.38
-33	46639.71	47975.04	49310.36
-32	43827.37	45045.00	46262.64
-31	41201.98	42311.84	43421.70
-30	38750.05	39761.20	40772.36
-29	36453.62	37379.87	38306.11
-28	34307.38	35155.63	36003.88
-27	32300.64	33077.25	33853.85
-26	30423.55	31134.33	31845.11
-25	28666.99	29317.28	29967.58
-24	27022.54	27617.25	28211.96
-23	25482.42	26026.04	26569.65
-22	24039.43	24536.08	25032.72
-21	22686.88	23140.35	23593.82
-20	21418.60	21832.38	22246.16
-19	20225.89	20606.16	20986.44
-18	19106.76	19456.13	19805.50
-17	18056.27	18377.13	18697.99
-16	17069.83	17364.38	17658.93
-15	16143.18	16413.46	16683.73
-14	15272.36	15520.23	15768.11
-13	14453.70	14680.90	14908.10
-12	13683.79	13891.91	14100.03
-11	12959.47	13149.97	13340.47
-10	12277.77	12452.01	12626.25
-9	11634.26	11795.19	11956.12
-8	11028.27	11176.86	11325.45
-7	10457.41	10594.56	10731.71
-6	9919.45	10045.99	10172.54
-5	9412.31	9529.02	9645.73
-4	8934.06	9041.65	9149.25
-3	8482.90	8582.04	8681.18
-2	8057.16	8148.45	8239.75
-1	7655.25	7739.27	7823.30
0	7275.73	7353.00	7430.27
1	6915.36	6988.23	7061.10
2	6574.91	6643.65	6712.38
3	6253.18	6318.03	6382.88
4	5949.04	6010.24	6071.44

T [°C]	R_{min} [Ω]	R_{center} [Ω]	R_{max} [Ω]
5	5661.43	5719.20	5776.97
6	5389.37	5443.91	5498.45
7	5131.93	5183.44	5234.95
8	4888.25	4936.91	4985.57
9	4657.52	4703.50	4749.47
10	4439.00	4482.45	4525.89
11	4231.87	4273.03	4314.19
12	4035.58	4074.58	4113.57
13	3849.50	3886.46	3923.41
14	3673.04	3708.08	3743.11
15	3505.66	3538.88	3572.10
16	3346.85	3378.36	3409.86
17	3196.12	3226.01	3255.90
18	3053.02	3081.38	3109.74
19	2917.12	2944.04	2970.95
20	2788.02	2813.58	2839.13
21	2665.30	2689.62	2713.94
22	2548.67	2571.81	2594.96
23	2437.77	2459.81	2481.85
24	2332.32	2353.31	2374.30
25	2232.01	2252.00	2271.99
26	2136.60	2155.61	2174.61
27	2045.80	2063.87	2081.94
28	1959.35	1976.54	1993.72
29	1877.03	1893.38	1909.73
30	1798.62	1814.17	1829.72
31	1723.87	1738.70	1753.54
32	1652.63	1666.79	1680.94
33	1584.73	1598.23	1611.74
34	1519.98	1532.87	1545.76
35	1458.23	1470.53	1482.84
36	1399.31	1411.07	1422.82
37	1343.10	1354.32	1365.55
38	1289.44	1300.17	1310.89
39	1238.22	1248.46	1258.71
40	1189.30	1199.10	1208.89
41	1142.58	1151.94	1161.30
42	1097.94	1106.89	1115.84
43	1055.29	1063.84	1072.40
44	1014.51	1022.70	1030.88
45	975.53	983.36	991.19
46	938.27	945.75	953.22
47	902.63	909.77	916.90
48	868.54	875.35	882.16
49	835.91	842.41	848.91

T [°C]	R_{min} [Ω]	R_{nom} [Ω]	R_{max} [Ω]
50	804.67	810.88	817.09
51	774.75	780.70	786.65
52	746.10	751.80	757.50
53	718.66	724.12	729.58
54	692.37	697.60	702.83
55	667.18	672.19	677.21
56	643.04	647.84	652.65
57	619.89	624.50	629.10
58	597.70	602.12	606.53
59	576.42	580.65	584.89
60	556.00	560.06	564.13
61	536.41	540.31	544.21
62	517.62	521.36	525.09
63	499.57	503.16	506.75
64	482.25	485.70	489.14
65	465.62	468.93	472.23
66	449.65	452.82	455.99
67	434.30	437.35	440.40
68	419.56	422.48	425.41
69	405.39	408.20	411.01
70	391.77	394.47	397.17
71	378.61	381.27	383.94
72	365.95	368.58	371.21
73	353.79	356.38	358.97
74	342.08	344.64	347.19
75	330.82	333.34	335.86
76	320.00	322.48	324.95
77	309.58	312.02	314.45
78	299.56	301.95	304.34
79	289.91	292.26	294.61
80	280.61	282.92	285.23
81	271.66	273.93	276.21
82	263.03	265.27	267.51
83	254.72	256.93	259.14
84	246.71	248.89	251.06
85	239.00	241.14	243.28
86	231.56	233.67	235.78
87	224.39	226.47	228.54
88	217.48	219.52	221.57
89	210.81	212.82	214.84
90	204.38	206.36	208.34
91	198.19	200.13	202.07
92	192.22	194.11	196.01
93	186.46	188.31	190.16
94	180.89	182.71	184.52
95	175.52	177.29	179.07
96	170.34	172.07	173.80
97	165.34	167.03	168.72
98	160.50	162.15	163.80
99	155.83	157.45	159.06
100	151.32	152.90	154.47

T [°C]	R_{min} [Ω]	R_{nom} [Ω]	R_{max} [Ω]
101	146.96	148.50	150.05
102	142.74	144.25	145.77
103	138.66	140.15	141.63
104	134.72	136.18	137.64
105	130.91	132.34	133.77
106	127.22	128.63	130.03
107	123.66	125.03	126.41
108	120.22	121.56	122.90
109	116.88	118.20	119.52
110	113.66	114.95	116.24
111	110.51	111.80	113.09
112	107.46	108.75	110.05
113	104.50	105.80	107.10
114	101.65	102.95	104.25
115	98.88	100.18	101.48
116	96.20	97.50	98.80
117	93.61	94.91	96.20
118	91.10	92.39	93.69
119	88.67	89.96	91.25
120	86.31	87.60	88.89
121	84.05	85.31	86.57
122	81.86	83.09	84.33
123	79.74	80.94	82.15
124	77.68	78.86	80.04
125	75.69	76.84	77.99
126	73.75	74.88	76.01
127	71.87	72.98	74.08
128	70.05	71.13	72.22
129	68.29	69.35	70.40
130	66.57	67.61	68.65
131	64.88	65.92	66.96
132	63.25	64.29	65.33
133	61.66	62.70	63.74
134	60.12	61.16	62.20
135	58.62	59.66	60.71
136	57.17	58.21	59.25
137	55.76	56.80	57.84
138	54.39	55.43	56.47
139	53.06	54.10	55.14
140	51.76	52.80	53.84
141	50.52	51.55	52.57
142	49.31	50.32	51.34
143	48.13	49.14	50.14
144	46.99	47.98	48.98
145	45.88	46.86	47.85
146	44.80	45.77	46.75
147	43.75	44.71	45.68
148	42.72	43.68	44.63
149	41.73	42.68	43.62
150	40.77	41.70	42.63

