

R-T Characteristics

NTC2.2k - E+E Order Code: TP21

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, resistance values in Ω)

T [°C]	R min	R center	R max
-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	R center	R max
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	R center	R max
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	R center	R max
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