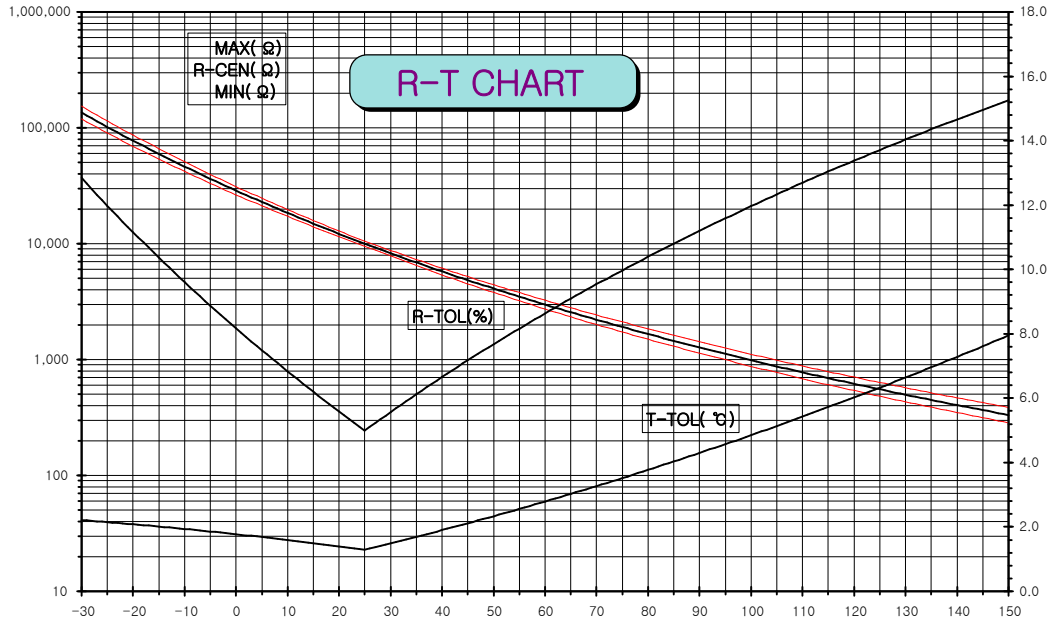
R-T Characteristics & Tolerance

Part Name	NTC
Customer	N/A
Part No.	DC-103JU 3435K
Usage / Remark	N/A
Recorder	G. S. HAN
Center-Temp / R-Value	25.0℃/10000.00Ω
R-Tolerance of Center-Temp	5.00%
Test Conditon	Zero Power
β-Range	(25/85)℃
β-Value	3435.4K
β-Tolerance	3.00%



L : 0.0 ℃=28,704.00Ω
M : 25.0 ℃=10,000.00Ω
H : 85.0 ℃=1,451.00Ω

TEMP. (℃)	RESISTANCE (Ω) MIN	CENTER	MAX	RESIST.-TOL. (%) MAX	MIN	TEMP.-TOL. (℃) MAX	MIN
-30.0	118976.1	135421.3	153754.1	13.54	12.14	2.33	2.09
-29.0	112483.8	127809.5	144860.3	13.34	11.99	2.32	2.08
-28.0	106394.4	120682.5	136547.2	13.15	11.84	2.30	2.07
-27.0	100680.1	114006.0	128773.0	12.95	11.69	2.28	2.06
-26.0	95315.2	107748.5	121499.0	12.76	11.54	2.27	2.05
-25.0	90276.1	101880.7	114689.5	12.57	11.39	2.25	2.04
-24.0	85540.6	96375.7	108311.8	12.38	11.24	2.24	2.03
-23.0	81088.4	91208.7	102335.5	12.20	11.10	2.22	2.02
-22.0	76900.6	86356.5	96732.7	12.02	10.95	2.21	2.01
-21.0	72959.8	81797.9	91477.4	11.83	10.80	2.19	2.00
-20.0	69249.7	77513.1	86545.8	11.65	10.66	2.17	1.99
-19.0	65755.2	73483.9	81915.7	11.47	10.52	2.16	1.98
-18.0	62462.4	69693.2	77566.7	11.30	10.38	2.14	1.97
-17.0	59358.2	66125.4	73479.9	11.12	10.23	2.12	1.95
-16.0	56430.7	62765.9	69637.7	10.95	10.09	2.11	1.94
-15.0	53668.6	59601.1	66023.9	10.78	9.95	2.09	1.93
-14.0	51061.4	56618.5	62623.3	10.61	9.81	2.07	1.92
-13.0	48599.5	53806.3	59422.0	10.44	9.68	2.06	1.91
-12.0	46273.8	51153.8	56407.1	10.27	9.54	2.04	1.89
-11.0	44075.8	48650.8	53566.3	10.10	9.40	2.02	1.88

TEMP. (℃)	RESISTANCE (Ω) MIN	CENTER	MAX	RESIST.-TOL. (%) MAX	MIN	TEMP.-TOL. (℃) MAX	MIN
-10.0	41997.8	46287.8	50888.6	9.94	9.27	2.00	1.87
-9.0	40032.4	44056.3	48363.5	9.78	9.13	1.99	1.86
-8.0	38172.7	41947.9	45981.3	9.62	9.00	1.97	1.84
-7.0	36412.4	39955.2	43733.0	9.46	8.87	1.95	1.83
-6.0	34745.6	38071.0	41610.3	9.30	8.73	1.93	1.81
-5.0	33166.7	36288.7	39605.3	9.14	8.60	1.91	1.80
-4.0	31670.4	34602.1	37710.8	8.98	8.47	1.89	1.79
-3.0	30252.0	33005.6	35919.9	8.83	8.34	1.88	1.77
-2.0	28906.8	31493.7	34226.3	8.68	8.21	1.86	1.76
-1.0	27630.7	30061.4	32624.1	8.52	8.09	1.84	1.74
0.0	26419.7	28704.0	31107.8	8.37	7.96	1.82	1.73
1.0	25270.0	27417.1	29672.4	8.23	7.83	1.80	1.71
2.0	24178.1	26196.7	28312.8	8.08	7.71	1.78	1.70
3.0	23140.8	25038.8	27024.8	7.93	7.58	1.76	1.68
4.0	22155.1	23939.9	25803.9	7.79	7.46	1.74	1.67
5.0	21217.9	22896.7	24646.5	7.64	7.33	1.72	1.65
6.0	20326.7	21905.8	23548.7	7.50	7.21	1.70	1.64
7.0	19478.9	20964.5	22507.1	7.36	7.09	1.68	1.62
8.0	18672.1	20069.9	21518.4	7.22	6.96	1.66	1.60
9.0	17904.1	19219.4	20579.8	7.08	6.84	1.64	1.59
10.0	17172.7	18410.6	19688.3	6.94	6.72	1.62	1.57
11.0	16476.1	17641.1	18841.3	6.80	6.60	1.60	1.55
12.0	15812.3	16908.9	18036.3	6.67	6.49	1.58	1.54
13.0	15179.6	16211.8	17270.9	6.53	6.37	1.56	1.52
14.0	14576.4	15548.1	16543.1	6.40	6.25	1.54	1.50
15.0	14001.1	14915.8	15850.6	6.27	6.13	1.51	1.48
16.0	13452.2	14313.4	15191.6	6.14	6.02	1.49	1.46
17.0	12928.4	13739.2	14564.3	6.01	5.90	1.47	1.45
18.0	12428.4	13191.7	13966.9	5.88	5.79	1.45	1.43
19.0	11951.0	12669.6	13397.8	5.75	5.67	1.43	1.41
20.0	11494.9	12171.5	12855.6	5.62	5.56	1.41	1.39
21.0	11059.2	11696.1	12338.8	5.49	5.45	1.38	1.37
22.0	10642.8	11242.4	11846.1	5.37	5.33	1.36	1.35
23.0	10244.8	10809.2	11376.1	5.25	5.22	1.34	1.33
24.0	9864.1	10395.3	10927.8	5.12	5.11	1.32	1.31
25.0	9500.0	10000.0	10500.0	5.00	5.00	1.29	1.29
26.0	9130.5	9622.2	10115.0	5.12	5.11	1.33	1.33
27.0	8777.7	9261.0	9746.5	5.24	5.22	1.37	1.37
28.0	8440.8	8915.7	9393.7	5.36	5.33	1.42	1.41
29.0	8118.8	8585.3	9056.0	5.48	5.43	1.46	1.44
30.0	7811.2	8269.3	8732.4	5.60	5.54	1.50	1.48
31.0	7517.1	7966.9	8422.5	5.72	5.65	1.54	1.52
32.0	7235.9	7677.4	8125.5	5.84	5.75	1.58	1.56
33.0	6967.0	7400.2	7840.8	5.95	5.85	1.62	1.60
34.0	6709.7	7134.8	7567.8	6.07	5.96	1.67	1.64
35.0	6463.5	6880.5	7306.0	6.18	6.06	1.71	1.68
36.0	6227.9	6636.8	7054.8	6.30	6.16	1.75	1.71
37.0	6002.2	6403.2	6813.9	6.41	6.26	1.80	1.75
38.0	5786.1	6179.3	6582.6	6.53	6.36	1.84	1.79
39.0	5579.1	5964.5	6360.6	6.64	6.46	1.88	1.83
40.0	5380.8	5758.6	6147.4	6.75	6.56	1.93	1.87
41.0	5190.7	5560.9	5942.7	6.86	6.66	1.97	1.91
42.0	5008.5	5371.3	5746.0	6.98	6.75	2.02	1.95
43.0	4833.7	5189.2	5557.0	7.09	6.85	2.06	1.99
44.0	4666.1	5014.5	5375.4	7.20	6.95	2.11	2.03
45.0	4505.3	4846.6	5200.7	7.31	7.04	2.15	2.07
46.0	4351.0	4685.4	5032.8	7.42	7.14	2.20	2.12
47.0	4202.9	4530.5	4871.3	7.52	7.23	2.24	2.16
48.0	4060.7	4381.6	4716.0	7.63	7.32	2.29	2.20
49.0	3924.2	4238.5	4566.5	7.74	7.42	2.34	2.24
50.0	3793.1	4100.9	4422.6	7.85	7.51	2.38	2.28
51.0	3667.1	3968.6	4284.2	7.95	7.60	2.43	2.32
52.0	3546.0	3841.3	4150.8	8.06	7.69	2.48	2.37
53.0	3429.6	3718.9	4022.4	8.16	7.78	2.53	2.41
54.0	3317.8	3601.0	3898.7	8.27	7.87	2.58	2.45
55.0	3210.2	3487.6	3779.6	8.37	7.96	2.62	2.49
56.0	3106.7	3378.4	3664.7	8.47	8.04	2.67	2.54
57.0	3007.2	3273.3	3554.1	8.58	8.13	2.72	2.58
58.0	2911.4	3172.0	3447.4	8.68	8.22	2.77	2.62

TEMP.	RESISTANCE (Ω)			RESIST.-TOL. (%)		TEMP.-TOL. (℃)	
(℃)	MIN	CENTER	MAX	MAX	MIN	MAX	MIN
59.0	2819.2	3074.5	3344.5	8.78	8.30	2.82	2.67
60.0	2730.5	2980.5	3245.3	8.88	8.39	2.87	2.71
61.0	2645.1	2889.9	3149.6	8.98	8.47	2.92	2.75
62.0	2562.8	2802.6	3057.2	9.08	8.56	2.97	2.80
63.0	2483.6	2718.5	2968.1	9.18	8.64	3.02	2.84
64.0	2407.2	2637.3	2882.1	9.28	8.72	3.07	2.89
65.0	2333.6	2559.0	2799.1	9.38	8.81	3.12	2.93
66.0	2262.7	2483.5	2718.9	9.48	8.89	3.17	2.98
67.0	2194.4	2410.6	2641.5	9.58	8.97	3.23	3.02
68.0	2128.5	2340.3	2566.7	9.68	9.05	3.28	3.07
69.0	2064.9	2272.4	2494.5	9.77	9.13	3.33	3.11
70.0	2003.6	2206.9	2424.7	9.87	9.21	3.38	3.16
71.0	1944.5	2143.6	2357.2	9.97	9.29	3.44	3.20
72.0	1887.4	2082.5	2292.0	10.06	9.37	3.49	3.25
73.0	1832.3	2023.5	2228.9	10.16	9.45	3.54	3.29
74.0	1779.1	1966.4	2168.0	10.25	9.52	3.60	3.34
75.0	1727.8	1911.3	2109.0	10.34	9.60	3.65	3.39
76.0	1678.2	1858.0	2052.0	10.44	9.68	3.70	3.43
77.0	1630.4	1806.6	1996.8	10.53	9.75	3.76	3.48
78.0	1584.1	1756.8	1943.4	10.62	9.83	3.81	3.53
79.0	1539.4	1708.6	1891.7	10.72	9.90	3.87	3.58
80.0	1496.2	1662.1	1841.7	10.81	9.98	3.92	3.62
81.0	1454.5	1617.0	1793.3	10.90	10.05	3.98	3.67
82.0	1414.1	1573.5	1746.4	10.99	10.13	4.03	3.72
83.0	1375.1	1531.3	1701.0	11.08	10.20	4.09	3.77
84.0	1337.4	1490.5	1657.0	11.17	10.27	4.15	3.81
85.0	1300.9	1451.0	1614.4	11.26	10.35	4.20	3.86
86.0	1265.6	1412.8	1573.1	11.35	10.42	4.26	3.91
87.0	1231.4	1375.7	1533.1	11.44	10.49	4.32	3.96
88.0	1198.4	1339.9	1494.3	11.53	10.56	4.38	4.01
89.0	1166.4	1305.1	1456.7	11.61	10.63	4.43	4.06
90.0	1135.4	1271.5	1420.3	11.70	10.70	4.49	4.11
91.0	1105.4	1238.9	1384.9	11.79	10.77	4.55	4.16
92.0	1076.4	1207.3	1350.6	11.88	10.84	4.61	4.21
93.0	1048.3	1176.6	1317.4	11.96	10.91	4.67	4.26
94.0	1021.1	1146.9	1285.1	12.05	10.98	4.73	4.31
95.0	994.7	1118.2	1253.8	12.13	11.04	4.79	4.36
96.0	969.1	1090.2	1223.4	12.22	11.11	4.85	4.41
97.0	944.3	1063.2	1194.0	12.30	11.18	4.91	4.46
98.0	920.3	1036.9	1165.4	12.39	11.24	4.97	4.51
99.0	897.0	1011.4	1137.6	12.47	11.31	5.03	4.56
100.0	874.5	986.7	1110.6	12.55	11.38	5.09	4.61
101.0	852.6	962.7	1084.4	12.64	11.44	5.15	4.66
102.0	831.4	939.5	1059.0	12.72	11.51	5.21	4.71
103.0	810.8	916.9	1034.2	12.80	11.57	5.27	4.77
104.0	790.8	894.9	1010.2	12.88	11.64	5.33	4.82
105.0	771.4	873.6	986.9	12.97	11.70	5.40	4.87
106.0	752.6	852.9	964.2	13.05	11.76	5.46	4.92
107.0	734.3	832.8	942.2	13.13	11.83	5.52	4.97
108.0	716.6	813.3	920.8	13.21	11.89	5.59	5.03
109.0	699.4	794.4	899.9	13.29	11.95	5.65	5.08
110.0	682.7	775.9	879.7	13.37	12.01	5.71	5.13
111.0	666.5	758.0	860.0	13.45	12.07	5.78	5.19
112.0	650.8	740.6	840.8	13.53	12.14	5.84	5.24
113.0	635.4	723.7	822.2	13.61	12.20	5.91	5.29
114.0	620.6	707.3	804.1	13.68	12.26	5.97	5.35
115.0	606.1	691.3	786.4	13.76	12.32	6.04	5.40
116.0	592.1	675.7	769.3	13.84	12.38	6.10	5.46
117.0	578.5	660.6	752.6	13.92	12.44	6.17	5.51
118.0	565.2	645.9	736.3	13.99	12.50	6.23	5.56
119.0	552.3	631.6	720.5	14.07	12.55	6.30	5.62
120.0	539.8	617.7	705.1	14.15	12.61	6.37	5.67
121.0	527.6	604.1	690.1	14.22	12.67	6.43	5.73
122.0	515.7	591.0	675.5	14.30	12.73	6.50	5.79
123.0	504.2	578.1	661.2	14.37	12.79	6.57	5.84
124.0	493.0	565.6	647.4	14.45	12.84	6.63	5.90
125.0	482.1	553.5	633.9	14.52	12.90	6.70	5.95
126.0	471.5	541.6	620.7	14.60	12.96	6.77	6.01
127.0	461.1	530.1	607.9	14.67	13.01	6.84	6.06

TEMP. (℃)	RESISTANCE (Ω) MIN	CENTER	MAX	RESIST.-TOL. (%) MAX	MIN	TEMP.-TOL. (℃) MAX	MIN
128.0	451.1	518.9	595.4	14.75	13.07	6.91	6.12
129.0	441.3	508.0	583.2	14.82	13.12	6.98	6.18
130.0	431.8	497.3	571.4	14.89	13.18	7.05	6.23
131.0	422.5	486.9	559.8	14.96	13.23	7.11	6.29
132.0	413.4	476.8	548.5	15.04	13.29	7.18	6.35
133.0	404.7	467.0	537.5	15.11	13.34	7.25	6.41
134.0	396.1	457.4	526.8	15.18	13.40	7.33	6.46
135.0	387.7	448.0	516.3	15.25	13.45	7.40	6.52
136.0	379.6	438.9	506.1	15.32	13.50	7.47	6.58
137.0	371.7	430.0	496.2	15.39	13.56	7.54	6.64
138.0	364.0	421.3	486.5	15.47	13.61	7.61	6.70
139.0	356.4	412.9	477.0	15.54	13.66	7.68	6.76
140.0	349.1	404.6	467.7	15.61	13.72	7.75	6.81
141.0	342.0	396.6	458.7	15.68	13.77	7.83	6.87
142.0	335.0	388.7	449.9	15.74	13.82	7.90	6.93
143.0	328.2	381.1	441.3	15.81	13.87	7.97	6.99
144.0	321.6	373.6	432.9	15.88	13.92	8.04	7.05
145.0	315.1	366.3	424.7	15.95	13.97	8.12	7.11
146.0	308.8	359.2	416.7	16.02	14.02	8.19	7.17
147.0	302.7	352.3	408.9	16.09	14.07	8.27	7.23
148.0	296.7	345.5	401.3	16.15	14.12	8.34	7.29
149.0	290.8	338.9	393.8	16.22	14.17	8.41	7.35
150.0	285.1	332.4	386.6	16.29	14.22	8.49	7.41