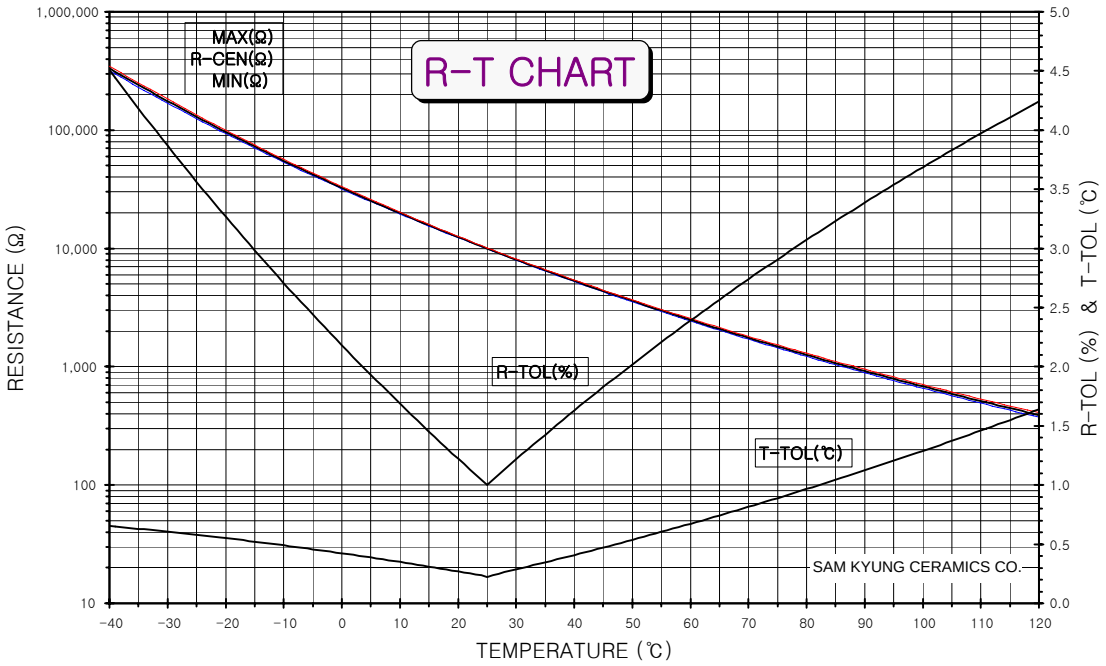
R-T Characteristics & Tolerance

Part Name	NTC THERMISTOR
Customer	
Part No.	NTC-103F397F
Usage / Remark	
Recorder	Y.S HWA
Center-Temp / R-Value	25.0℃/10.00kΩ
R-Tolerance of Center-Temp	1.00%
Test Conditon	Un Loaded
β-Range	25/85
β-Value	3970K
β-Tolerance	1.00%



L : 0.0℃=32,600.00Ω
M : 25.0℃=10,000.00Ω
H : 85.0℃=1,074.60Ω

TEMP. (℃)	RESISTANCE (Ω) MIN	CENTER	MAX	RESIST.-TOL. (%) MAX	MIN	TEMP.-TOL. (℃) MAX	MIN
-40	318417.75	333110.21	348445.8	4.60	4.41	0.67	0.64
-39	298320.39	311880.07	326023.5	4.53	4.35	0.66	0.64
-38	279613.35	292131.57	305179.7	4.47	4.29	0.66	0.63
-37	262192.72	273753.09	285794.6	4.40	4.22	0.65	0.63
-36	245962.89	256641.96	267757.9	4.33	4.16	0.65	0.62
-35	230835.84	240703.76	250968.4	4.26	4.10	0.64	0.62
-34	216730.52	225851.57	235332.9	4.20	4.04	0.64	0.61
-33	203572.26	212005.38	220765.8	4.13	3.98	0.63	0.61
-32	191292.22	199091.47	207188.0	4.07	3.92	0.63	0.60
-31	179826.93	187041.91	194526.9	4.00	3.86	0.62	0.60
-30	169117.82	175794.07	182715.6	3.94	3.80	0.62	0.59
-29	159110.84	165290.18	171692.3	3.87	3.74	0.61	0.59
-28	149756.08	155476.92	161400.2	3.81	3.68	0.61	0.58
-27	141007.44	146305.08	151786.6	3.75	3.62	0.60	0.58
-26	132822.29	137729.21	142803.1	3.68	3.56	0.59	0.57
-25	125161.26	129707.28	134405.0	3.62	3.50	0.59	0.57
-24	117987.88	122200.49	126550.8	3.56	3.45	0.58	0.56
-23	111268.46	115172.92	119202.5	3.50	3.39	0.58	0.56
-22	104971.76	108591.35	112324.5	3.44	3.33	0.57	0.55
-21	99068.88	102425.03	105884.3	3.38	3.28	0.56	0.55
-20	93533.03	96645.50	99851.5	3.32	3.22	0.56	0.54

TEMP.	RESISTANCE (Ω)			RESIST.-TOL. (%)		TEMP.-TOL. (℃)	
(℃)	MIN	CENTER	MAX	MAX	MIN	MAX	MIN
-19	88339.39	91226.37	94198.3	3.26	3.16	0.55	0.54
-18	83464.93	86143.21	88898.5	3.20	3.11	0.55	0.53
-17	78888.30	81373.35	83928.3	3.14	3.05	0.54	0.53
-16	74589.68	76895.79	79265.3	3.08	3.00	0.53	0.52
-15	70550.67	72691.02	74888.8	3.02	2.94	0.53	0.51
-14	66754.19	68740.94	70779.7	2.97	2.89	0.52	0.51
-13	63184.35	65028.74	66920.3	2.91	2.84	0.52	0.50
-12	59826.40	61538.82	63293.9	2.85	2.78	0.51	0.50
-11	56666.61	58256.65	59885.3	2.80	2.73	0.50	0.49
-10	53692.23	55168.76	56680.2	2.74	2.68	0.50	0.48
-9	50891.38	52262.59	53665.4	2.68	2.62	0.49	0.48
-8	48253.00	49526.48	50828.5	2.63	2.57	0.48	0.47
-7	45766.78	46949.56	48158.1	2.57	2.52	0.48	0.47
-6	43423.15	44521.71	45643.5	2.52	2.47	0.47	0.46
-5	41213.15	42233.51	43274.8	2.47	2.42	0.46	0.45
-4	39128.46	40076.19	41042.8	2.41	2.36	0.45	0.45
-3	37161.30	38041.55	38938.8	2.36	2.31	0.45	0.44
-2	35304.41	36121.98	36954.8	2.31	2.26	0.44	0.43
-1	33551.04	34310.34	35083.3	2.25	2.21	0.43	0.43
0	31894.85	32600.00	33317.4	2.20	2.16	0.43	0.42
1	30329.96	30984.76	31650.5	2.15	2.11	0.42	0.41
2	28850.83	29458.82	30076.6	2.10	2.06	0.41	0.41
3	27452.33	28016.78	28590.0	2.05	2.01	0.40	0.40
4	26129.62	26653.58	27185.3	2.00	1.97	0.40	0.39
5	24878.21	25364.49	25857.7	1.94	1.92	0.39	0.38
6	23693.87	24145.10	24602.5	1.89	1.87	0.38	0.38
7	22572.65	22991.27	23415.3	1.84	1.82	0.37	0.37
8	21510.87	21899.14	22292.2	1.79	1.77	0.37	0.36
9	20505.06	20865.08	21229.3	1.75	1.73	0.36	0.36
10	19551.98	19885.70	20223.1	1.70	1.68	0.35	0.35
11	18648.59	18957.83	19270.3	1.65	1.63	0.34	0.34
12	17792.04	18078.49	18367.7	1.60	1.58	0.34	0.33
13	16979.66	17244.89	17512.5	1.55	1.54	0.33	0.33
14	16208.94	16454.40	16701.9	1.50	1.49	0.32	0.32
15	15477.53	15704.59	15933.4	1.46	1.45	0.31	0.31
16	14783.22	14993.15	15204.5	1.41	1.40	0.30	0.30
17	14123.95	14317.91	14513.1	1.36	1.35	0.30	0.29
18	13497.75	13676.85	13856.9	1.32	1.31	0.29	0.29
19	12902.81	13068.07	13234.1	1.27	1.26	0.28	0.28
20	12337.40	12489.76	12642.7	1.22	1.22	0.27	0.27
21	11799.91	11940.26	12081.1	1.18	1.18	0.26	0.26
22	11288.81	11417.97	11547.5	1.13	1.13	0.25	0.25
23	10802.68	10921.42	11040.4	1.09	1.09	0.25	0.25
24	10340.16	10449.20	10558.3	1.04	1.04	0.24	0.24
25	9900.00	10000.00	10100.0	1.00	1.00	0.22	0.22
26	9472.71	9572.58	9672.5	1.04	1.04	0.24	0.24
27	9066.21	9165.77	9265.5	1.09	1.09	0.25	0.25
28	8679.38	8778.48	8877.8	1.13	1.13	0.26	0.26
29	8311.16	8409.67	8508.5	1.18	1.17	0.28	0.27
30	7960.58	8058.36	8156.5	1.22	1.21	0.29	0.29
31	7626.68	7723.64	7821.1	1.26	1.26	0.30	0.30
32	7308.61	7404.65	7501.2	1.30	1.30	0.31	0.31
33	7005.52	7100.56	7196.2	1.35	1.34	0.32	0.32
34	6716.65	6810.60	6905.2	1.39	1.38	0.34	0.33
35	6441.24	6534.05	6627.5	1.43	1.42	0.35	0.34
36	6178.61	6270.22	6362.6	1.47	1.46	0.36	0.36
37	5928.10	6018.46	6109.6	1.51	1.50	0.37	0.37
38	5689.09	5778.16	5868.0	1.56	1.54	0.38	0.38
39	5461.00	5548.75	5637.3	1.60	1.58	0.40	0.39
40	5243.27	5329.67	5416.9	1.64	1.62	0.41	0.41
41	5035.39	5120.41	5206.3	1.68	1.66	0.42	0.42
42	4836.85	4920.48	5005.1	1.72	1.70	0.44	0.43
43	4647.20	4729.42	4812.6	1.76	1.74	0.45	0.44
44	4465.99	4546.79	4628.6	1.80	1.78	0.46	0.46
45	4292.80	4372.18	4452.6	1.84	1.82	0.47	0.47
46	4127.25	4205.21	4284.2	1.88	1.85	0.49	0.48
47	3968.95	4045.48	4123.1	1.92	1.89	0.50	0.49
48	3817.55	3892.67	3968.9	1.96	1.93	0.51	0.51
49	3672.73	3746.43	3821.2	2.00	1.97	0.53	0.52
50	3534.16	3606.45	3679.9	2.04	2.00	0.54	0.53

TEMP. (℃)	RESISTANCE (Ω)			RESIST.-TOL. (%)		TEMP.-TOL. (℃)	
	MIN	CENTER	MAX	MAX	MIN	MAX	MIN
51	3401.54	3472.44	3544.5	2.07	2.04	0.55	0.55
52	3274.59	3344.10	3414.7	2.11	2.08	0.57	0.56
53	3153.04	3221.18	3290.5	2.15	2.12	0.58	0.57
54	3036.64	3103.41	3171.3	2.19	2.15	0.60	0.59
55	2925.13	2990.56	3057.2	2.23	2.19	0.61	0.60
56	2818.30	2882.40	2947.7	2.26	2.22	0.62	0.61
57	2715.92	2778.71	2842.7	2.30	2.26	0.64	0.63
58	2617.79	2679.29	2742.0	2.34	2.30	0.65	0.64
59	2523.71	2583.93	2645.3	2.38	2.33	0.67	0.65
60	2433.49	2492.46	2552.6	2.41	2.37	0.68	0.67
61	2346.96	2404.70	2463.6	2.45	2.40	0.69	0.68
62	2263.96	2320.47	2378.2	2.49	2.44	0.71	0.69
63	2184.31	2239.63	2296.1	2.52	2.47	0.72	0.71
64	2107.86	2162.02	2217.3	2.56	2.50	0.74	0.72
65	2034.49	2087.49	2141.7	2.59	2.54	0.75	0.74
66	1964.04	2015.90	2068.9	2.63	2.57	0.77	0.75
67	1896.38	1947.14	1999.1	2.67	2.61	0.78	0.76
68	1831.40	1881.07	1931.9	2.70	2.64	0.80	0.78
69	1768.97	1817.57	1867.3	2.74	2.67	0.81	0.79
70	1708.99	1756.54	1805.2	2.77	2.71	0.83	0.81
71	1651.34	1697.86	1745.5	2.81	2.74	0.84	0.82
72	1595.92	1641.44	1688.1	2.84	2.77	0.86	0.83
73	1542.64	1587.17	1632.8	2.88	2.81	0.87	0.85
74	1491.41	1534.97	1579.7	2.91	2.84	0.89	0.86
75	1442.13	1484.75	1528.5	2.94	2.87	0.90	0.88
76	1394.73	1436.42	1479.21	2.98	2.90	0.92	0.89
77	1349.12	1389.91	1431.78	3.01	2.93	0.93	0.91
78	1305.23	1345.13	1386.11	3.05	2.97	0.95	0.92
79	1262.98	1302.01	1342.12	3.08	3.00	0.96	0.94
80	1222.31	1260.49	1299.74	3.11	3.03	0.98	0.95
81	1183.15	1220.50	1258.91	3.15	3.06	1.00	0.97
82	1145.43	1181.97	1219.56	3.18	3.09	1.01	0.98
83	1109.11	1144.85	1181.64	3.21	3.12	1.03	1.00
84	1074.11	1109.08	1145.08	3.25	3.15	1.04	1.01
85	1040.39	1074.60	1109.83	3.28	3.18	1.06	1.03
86	1007.89	1041.36	1075.84	3.31	3.21	1.08	1.04
87	976.56	1009.31	1043.05	3.34	3.24	1.09	1.06
88	946.36	978.40	1011.42	3.38	3.27	1.11	1.08
89	917.24	948.59	980.91	3.41	3.30	1.12	1.09
90	889.16	919.83	951.46	3.44	3.33	1.14	1.11
91	862.07	892.08	923.04	3.47	3.36	1.16	1.12
92	835.94	865.30	895.61	3.50	3.39	1.17	1.14
93	810.73	839.46	869.12	3.53	3.42	1.19	1.15
94	786.40	814.51	843.55	3.56	3.45	1.21	1.17
95	762.91	790.42	818.85	3.60	3.48	1.22	1.19
96	740.24	767.16	794.99	3.63	3.51	1.24	1.20
97	718.35	744.70	771.94	3.66	3.54	1.26	1.22
98	697.21	723.00	749.66	3.69	3.57	1.28	1.23
99	676.79	702.03	728.14	3.72	3.60	1.29	1.25
100	657.07	681.78	707.34	3.75	3.62	1.31	1.27
101	638.02	662.20	687.23	3.78	3.65	1.33	1.28
102	619.61	643.28	667.78	3.81	3.68	1.35	1.30
103	601.82	624.99	648.98	3.84	3.71	1.36	1.32
104	584.62	607.30	630.80	3.87	3.73	1.38	1.33
105	567.99	590.20	613.21	3.90	3.76	1.40	1.35
106	551.92	573.66	596.19	3.93	3.79	1.42	1.37
107	536.37	557.66	579.73	3.96	3.82	1.43	1.38
108	521.34	542.18	563.80	3.99	3.84	1.45	1.40
109	506.79	527.20	548.37	4.02	3.87	1.47	1.42
110	492.72	512.71	533.45	4.05	3.90	1.49	1.43
111	479.11	498.68	519.00	4.07	3.92	1.51	1.45
112	465.93	485.10	505.00	4.10	3.95	1.52	1.47
113	453.18	471.95	491.45	4.13	3.98	1.54	1.48
114	440.84	459.22	478.33	4.16	4.00	1.56	1.50
115	428.89	446.90	465.61	4.19	4.03	1.58	1.52
116	417.32	434.96	453.30	4.22	4.06	1.60	1.54
117	406.11	423.39	441.36	4.24	4.08	1.62	1.55
118	395.25	412.18	429.80	4.27	4.11	1.63	1.57
119	384.74	401.33	418.59	4.30	4.13	1.65	1.59
120	374.55	390.80	407.72	4.33	4.16	1.67	1.61