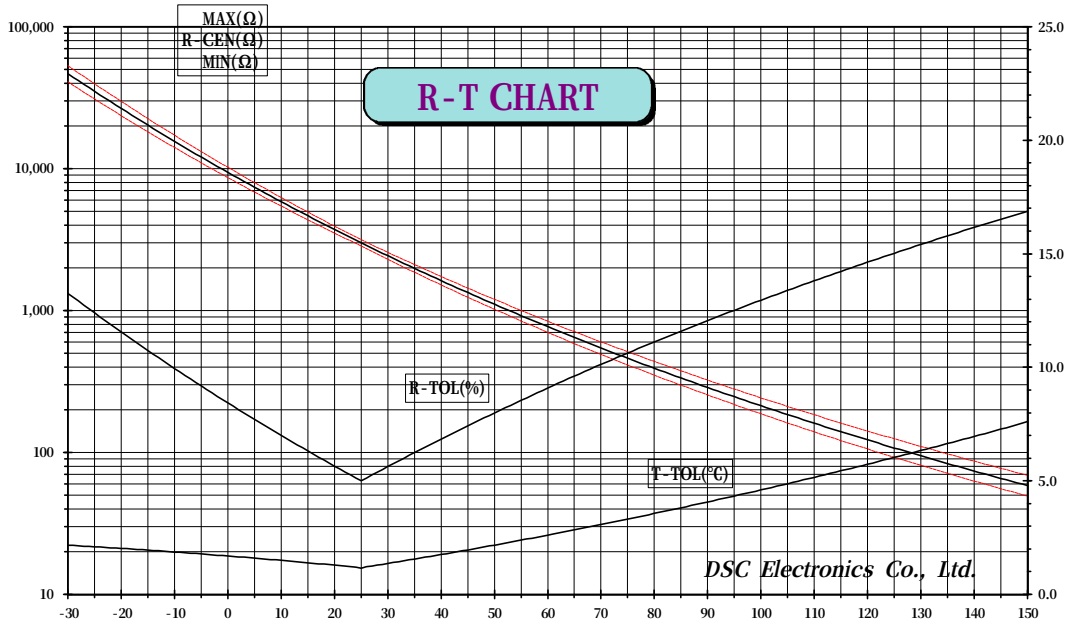
R-T Characteristics & Tolerance

Part Name	NTC
Customer	N/A
Part No.	302J5(D6K)
Usage / Remark	N/A
Recorder	G. S. HAN
Center-Temp / R-Value	25.0℃/3000.00Ω
R-Tolerance of Center-Temp	5.00%
Test Conditon	Zero Power
β-Range	(25/85)℃
β-Value	3899.9K
β-Tolerance	3.00%



L : 0.0℃=9,408.00Ω
M : 25.0℃=3,000.00Ω
H : 85.0℃=335.30Ω

TEMP. (℃)	RESISTANCE (Ω) MIN	CENTER	MAX	RESIST.-TOL. (%) MAX	MIN	TEMP.-TOL. (℃) MAX	MIN
-30.0	40878.35	46724.26	53272.65	14.01	12.51	2.29	2.04
-29.0	38643.30	44092.83	50185.09	13.82	12.36	2.27	2.03
-28.0	36542.15	41623.34	47292.55	13.62	12.21	2.26	2.02
-27.0	34566.26	39305.07	44581.81	13.43	12.06	2.24	2.01
-26.0	32707.56	37128.03	42040.58	13.23	11.91	2.22	2.00
-25.0	30958.56	35082.98	39657.47	13.04	11.76	2.21	1.99
-24.0	29312.28	33161.28	37421.91	12.85	11.61	2.19	1.98
-23.0	27762.19	31354.92	35324.05	12.66	11.46	2.17	1.97
-22.0	26302.23	29656.43	33354.78	12.47	11.31	2.16	1.95
-21.0	24926.72	28058.85	31505.60	12.28	11.16	2.14	1.94
-20.0	23630.38	26555.73	29768.62	12.10	11.02	2.12	1.93
-19.0	22408.29	25141.03	28136.50	11.91	10.87	2.10	1.92
-18.0	21255.84	23809.12	26602.43	11.73	10.72	2.08	1.91
-17.0	20168.73	22554.77	25160.04	11.55	10.58	2.07	1.89
-16.0	19142.95	21373.10	23803.41	11.37	10.43	2.05	1.88
-15.0	18174.74	20259.55	22527.06	11.19	10.29	2.03	1.87
-14.0	17260.61	19209.88	21325.83	11.01	10.15	2.01	1.85
-13.0	16397.27	18220.11	20194.96	10.84	10.00	1.99	1.84
-12.0	15581.67	17286.53	19129.99	10.66	9.86	1.97	1.83
-11.0	14810.93	16405.71	18126.77	10.49	9.72	1.95	1.81
-10.0	14082.38	15574.39	17181.42	10.32	9.58	1.94	1.80
-9.0	13393.50	14789.57	16290.33	10.15	9.44	1.92	1.78

TEMP. (℃)	RESISTANCE (Ω) MIN	CENTER	MAX	RESIST.-TOL. (%) MAX	MIN	TEMP.-TOL. (℃) MAX	MIN
-8.0	12741.95	14048.43	15450.13	9.98	9.30	1.90	1.77
-7.0	12125.53	13348.31	14657.67	9.81	9.16	1.88	1.75
-6.0	11542.18	12686.77	13910.00	9.64	9.02	1.86	1.74
-5.0	10989.96	12061.48	13204.39	9.48	8.88	1.84	1.72
-4.0	10467.06	11470.30	12538.27	9.31	8.75	1.82	1.71
-3.0	9971.79	10911.19	11909.24	9.15	8.61	1.80	1.69
-2.0	9502.56	10382.27	11315.06	8.98	8.47	1.78	1.68
-1.0	9057.88	9881.76	10753.63	8.82	8.34	1.76	1.66
0.0	8636.34	9408.00	10222.99	8.66	8.20	1.74	1.64
1.0	8236.63	8959.43	9721.31	8.50	8.07	1.72	1.63
2.0	7857.51	8534.60	9246.86	8.35	7.93	1.69	1.61
3.0	7497.83	8132.14	8798.05	8.19	7.80	1.67	1.59
4.0	7156.50	7750.75	8373.36	8.03	7.67	1.65	1.58
5.0	6832.50	7389.25	7971.39	7.88	7.53	1.63	1.56
6.0	6524.86	7046.49	7590.80	7.72	7.40	1.61	1.54
7.0	6232.67	6721.42	7230.37	7.57	7.27	1.59	1.52
8.0	5955.10	6413.04	6888.93	7.42	7.14	1.57	1.51
9.0	5691.34	6120.41	6565.38	7.27	7.01	1.54	1.49
10.0	5440.63	5842.66	6258.71	7.12	6.88	1.52	1.47
11.0	5202.28	5578.96	5967.95	6.97	6.75	1.50	1.45
12.0	4975.60	5328.52	5692.21	6.83	6.62	1.48	1.43
13.0	4759.99	5090.63	5430.63	6.68	6.50	1.45	1.41
14.0	4554.83	4864.59	5182.43	6.53	6.37	1.43	1.40
15.0	4359.58	4649.76	4946.85	6.39	6.24	1.41	1.38
16.0	4173.72	4445.53	4723.20	6.25	6.11	1.39	1.36
17.0	3996.74	4251.32	4510.82	6.10	5.99	1.36	1.34
18.0	3828.18	4066.60	4309.08	5.96	5.86	1.34	1.32
19.0	3667.60	3890.86	4117.39	5.82	5.74	1.32	1.30
20.0	3514.58	3723.62	3935.23	5.68	5.61	1.29	1.28
21.0	3368.74	3564.43	3762.05	5.54	5.49	1.27	1.26
22.0	3229.70	3412.86	3597.39	5.41	5.37	1.25	1.24
23.0	3097.11	3268.51	3440.77	5.27	5.24	1.22	1.22
24.0	2970.65	3131.01	3291.78	5.13	5.12	1.20	1.19
25.0	2850.00	3000.00	3150.00	5.00	5.00	1.14	1.14
26.0	2727.90	2875.14	3022.75	5.13	5.12	1.21	1.21
27.0	2611.66	2756.12	2901.29	5.27	5.24	1.25	1.24
28.0	2500.96	2642.63	2785.34	5.40	5.36	1.29	1.28
29.0	2395.52	2534.39	2674.61	5.53	5.48	1.33	1.32
30.0	2295.06	2431.13	2568.84	5.66	5.60	1.37	1.35
31.0	2199.32	2332.61	2467.80	5.80	5.71	1.41	1.39
32.0	2108.06	2238.58	2371.25	5.93	5.83	1.45	1.43
33.0	2021.05	2148.82	2278.96	6.06	5.95	1.49	1.46
34.0	1938.07	2063.11	2190.74	6.19	6.06	1.53	1.50
35.0	1858.91	1981.26	2106.37	6.32	6.18	1.57	1.54
36.0	1783.39	1903.06	2025.69	6.44	6.29	1.61	1.58
37.0	1711.32	1828.35	1948.50	6.57	6.40	1.66	1.61
38.0	1642.52	1756.94	1874.64	6.70	6.51	1.70	1.65
39.0	1576.83	1688.68	1803.95	6.83	6.62	1.74	1.69
40.0	1514.10	1623.42	1736.29	6.95	6.73	1.78	1.73
41.0	1454.18	1561.01	1671.50	7.08	6.84	1.83	1.77
42.0	1396.93	1501.31	1609.45	7.20	6.95	1.87	1.80
43.0	1342.22	1444.19	1550.02	7.33	7.06	1.91	1.84
44.0	1289.92	1389.53	1493.09	7.45	7.17	1.96	1.88
45.0	1239.93	1337.21	1438.52	7.58	7.28	2.00	1.92
46.0	1192.11	1287.12	1386.23	7.70	7.38	2.05	1.96
47.0	1146.39	1239.16	1336.09	7.82	7.49	2.09	2.00
48.0	1102.64	1193.22	1288.02	7.94	7.59	2.13	2.04
49.0	1060.77	1149.21	1241.91	8.07	7.70	2.18	2.08
50.0	1020.71	1107.05	1197.69	8.19	7.80	2.23	2.12
51.0	982.35	1066.64	1155.26	8.31	7.90	2.27	2.16
52.0	945.63	1027.90	1114.54	8.43	8.00	2.32	2.20
53.0	910.46	990.76	1075.46	8.55	8.11	2.36	2.24
54.0	876.77	955.15	1037.94	8.67	8.21	2.41	2.28
55.0	844.49	920.99	1001.91	8.79	8.31	2.46	2.32
56.0	813.55	888.22	967.32	8.90	8.41	2.50	2.36
57.0	783.91	856.78	934.08	9.02	8.51	2.55	2.40
58.0	755.48	826.60	902.15	9.14	8.60	2.60	2.45
59.0	728.23	797.64	871.47	9.26	8.70	2.65	2.49
60.0	702.09	769.83	841.98	9.37	8.80	2.70	2.53
61.0	677.02	743.12	813.64	9.49	8.90	2.74	2.57
62.0	652.97	717.47	786.38	9.60	8.99	2.79	2.61

TEMP. (℃)	RESISTANCE (Ω) MIN	CENTER	MAX	RESIST.-TOL. (%) MAX	MIN	TEMP.-TOL. (℃) MAX	MIN
63.0	629.88	692.83	760.18	9.72	9.09	2.84	2.66
64.0	607.72	669.16	734.97	9.83	9.18	2.89	2.70
65.0	586.45	646.41	710.72	9.95	9.28	2.94	2.74
66.0	566.03	624.54	687.38	10.06	9.37	2.99	2.78
67.0	546.42	603.52	664.93	10.17	9.46	3.04	2.83
68.0	527.58	583.31	643.32	10.29	9.55	3.09	2.87
69.0	509.48	563.87	622.51	10.40	9.65	3.14	2.91
70.0	492.09	545.17	602.48	10.51	9.74	3.19	2.96
71.0	475.37	527.19	583.19	10.62	9.83	3.24	3.00
72.0	459.30	509.88	564.60	10.73	9.92	3.30	3.05
73.0	443.86	493.22	546.70	10.84	10.01	3.35	3.09
74.0	429.00	477.19	529.46	10.95	10.10	3.40	3.13
75.0	414.71	461.75	512.83	11.06	10.19	3.45	3.18
76.0	400.97	446.89	496.81	11.17	10.27	3.50	3.22
77.0	387.75	432.57	481.37	11.28	10.36	3.56	3.27
78.0	375.02	418.78	466.48	11.39	10.45	3.61	3.31
79.0	362.78	405.50	452.12	11.50	10.54	3.66	3.36
80.0	350.99	392.70	438.27	11.60	10.62	3.72	3.40
81.0	339.64	380.36	424.91	11.71	10.71	3.77	3.45
82.0	328.71	368.47	412.02	11.82	10.79	3.83	3.49
83.0	318.18	357.01	399.58	11.92	10.88	3.88	3.54
84.0	308.04	345.96	387.58	12.03	10.96	3.94	3.59
85.0	298.27	335.30	375.99	12.13	11.04	3.99	3.63
86.0	288.85	325.02	364.80	12.24	11.13	4.05	3.68
87.0	279.78	315.10	354.00	12.34	11.21	4.10	3.73
88.0	271.03	305.53	343.57	12.45	11.29	4.16	3.77
89.0	262.60	296.30	333.49	12.55	11.37	4.21	3.82
90.0	254.47	287.39	323.76	12.65	11.45	4.27	3.87
91.0	246.63	278.79	314.35	12.76	11.54	4.33	3.91
92.0	239.06	270.48	305.27	12.86	11.62	4.39	3.96
93.0	231.77	262.46	296.48	12.96	11.70	4.44	4.01
94.0	224.73	254.72	287.99	13.06	11.77	4.50	4.06
95.0	217.93	247.24	279.79	13.16	11.85	4.56	4.10
96.0	211.37	240.01	271.85	13.27	11.93	4.62	4.15
97.0	205.04	233.03	264.18	13.37	12.01	4.68	4.20
98.0	198.93	226.28	256.75	13.47	12.09	4.73	4.25
99.0	193.03	219.76	249.57	13.56	12.16	4.79	4.30
100.0	187.33	213.46	242.63	13.66	12.24	4.85	4.35
101.0	181.82	207.37	235.91	13.76	12.32	4.91	4.40
102.0	176.51	201.48	229.40	13.86	12.39	4.97	4.45
103.0	171.37	195.78	223.11	13.96	12.47	5.03	4.50
104.0	166.40	190.27	217.01	14.06	12.54	5.09	4.55
105.0	161.60	184.94	211.11	14.15	12.62	5.15	4.59
106.0	156.96	179.78	205.40	14.25	12.69	5.22	4.64
107.0	152.47	174.79	199.87	14.35	12.77	5.28	4.70
108.0	148.14	169.96	194.51	14.44	12.84	5.34	4.75
109.0	143.94	165.28	189.32	14.54	12.91	5.40	4.80
110.0	139.89	160.76	184.29	14.64	12.98	5.46	4.85
111.0	135.96	156.38	179.41	14.73	13.06	5.53	4.90
112.0	132.16	152.14	174.69	14.82	13.13	5.59	4.95
113.0	128.49	148.03	170.11	14.92	13.20	5.65	5.00
114.0	124.93	144.05	165.68	15.01	13.27	5.71	5.05
115.0	121.49	140.20	161.38	15.11	13.34	5.78	5.10
116.0	118.16	136.46	157.21	15.20	13.41	5.84	5.15
117.0	114.94	132.85	153.16	15.29	13.48	5.91	5.21
118.0	111.81	129.34	149.24	15.39	13.55	5.97	5.26
119.0	108.79	125.94	145.44	15.48	13.62	6.04	5.31
120.0	105.86	122.65	141.74	15.57	13.69	6.10	5.36
121.0	103.02	119.46	138.16	15.66	13.76	6.17	5.42
122.0	100.27	116.36	134.69	15.75	13.82	6.23	5.47
123.0	97.61	113.36	131.32	15.84	13.89	6.30	5.52
124.0	95.03	110.45	128.04	15.93	13.96	6.36	5.58
125.0	92.53	107.62	124.87	16.02	14.03	6.43	5.63
126.0	90.10	104.88	121.78	16.11	14.09	6.50	5.68
127.0	87.75	102.23	118.79	16.20	14.16	6.56	5.74
128.0	85.47	99.65	115.88	16.29	14.22	6.63	5.79
129.0	83.26	97.14	113.06	16.38	14.29	6.70	5.84
130.0	81.12	94.71	110.31	16.47	14.35	6.77	5.90
131.0	79.04	92.36	107.65	16.56	14.42	6.83	5.95
132.0	77.02	90.07	105.06	16.64	14.48	6.90	6.01
133.0	75.07	87.85	102.54	16.73	14.55	6.97	6.06

TEMP. (℃)	RESISTANCE (Ω) MIN	CENTER	MAX	RESIST.-TOL. (%) MAX	MIN	TEMP.-TOL. (℃) MAX	MIN
134.0	73.17	85.69	100.10	16.82	14.61	7.04	6.12
135.0	71.32	83.59	97.72	16.91	14.68	7.11	6.17
136.0	69.54	81.56	95.42	16.99	14.74	7.18	6.23
137.0	67.80	79.58	93.17	17.08	14.80	7.25	6.28
138.0	66.12	77.66	90.99	17.16	14.86	7.32	6.34
139.0	64.48	75.79	88.87	17.25	14.93	7.39	6.39
140.0	62.89	73.98	86.80	17.34	14.99	7.46	6.45
141.0	61.35	72.22	84.80	17.42	15.05	7.53	6.51
142.0	59.85	70.50	82.85	17.51	15.11	7.60	6.56
143.0	58.40	68.84	80.95	17.59	15.17	7.67	6.62
144.0	56.98	67.22	79.10	17.67	15.23	7.75	6.68
145.0	55.61	65.65	77.30	17.76	15.29	7.82	6.73
146.0	54.27	64.12	75.55	17.84	15.35	7.89	6.79
147.0	52.98	62.63	73.85	17.92	15.41	7.96	6.85
148.0	51.72	61.18	72.20	18.01	15.47	8.04	6.91
149.0	50.49	59.77	70.58	18.09	15.53	8.11	6.96
150.0	49.30	58.40	69.02	18.17	15.59	8.18	7.02