

NTC Thermistor

SAMPLE DETAILS

Customer:	N/A		
Customer Part No.:			
Sample Reference Number	N/A	REV 01	
Betatherm Part No.:	15K3MBD8		

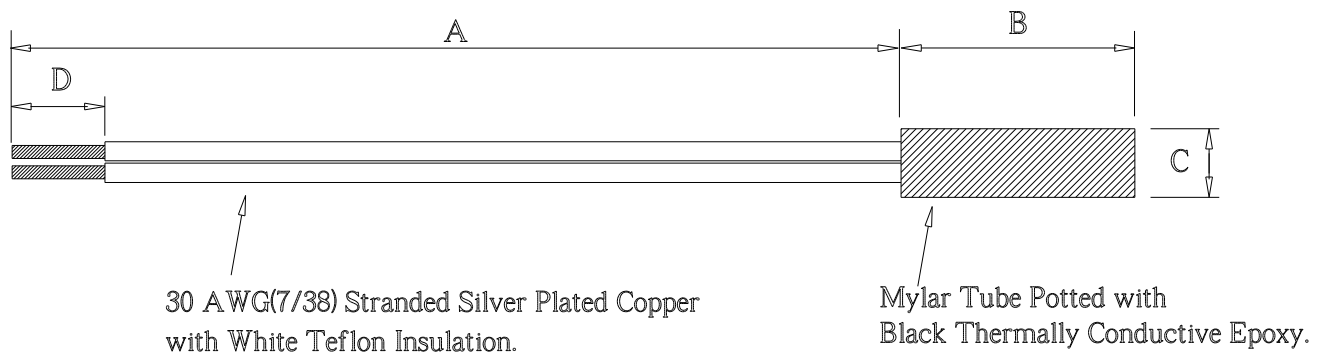
DESCRIPTION

NTC Thermistor is soldered to 30AWG Stranded Silver Plated Copper wire with White Teflon Insulation. Device is potted in a polyimide tube using Stycast Epoxy Resin

PERFORMANCE SPECS

Parameters	Units	Value
Resistance @ +25°C	Ohms	15,000
Resistance tolerance from 25°C to 95°C	°C	±0.1
Alpha Value @ 25°C	%/°C	-4.39
Beta Value 25/85	K	3976
Tolerance on Beta Value 25/85	%	±0.5
Time response in Liquids	Milliseconds	< 400
Dissipation Constant in still air	mW/°C	0.5

MECHANICAL DETAILS



	Dimensions			
	A	B	C	D
	152 ± 5mm	5mm Max	1.7mm Max	6 ± 1mm

NTC Thermistor

RESISTANCE V TEMPERATURE TABLE

Temp. °C	Ohms
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-40	504442.5
-39	472090.7
-38	442017.1
-37	414047.9
-36	388023.7
-35	363797.6
-34	341235.1
-33	320212.3
-32	300615.1
-31	282338.6
-30	265286.2
-29	249368.8
-28	234504.5
-27	220617.4
-26	207637.8
-25	195501.1
-24	184147.9
-23	173523.1
-22	163575.9
-21	154259.1
-20	145529.4
-19	137346.4
-18	129672.7
-17	122473.9
-16	115718.0
-15	109375.1
-14	103417.8
-13	97820.4
-12	92559.3
-11	87612.3
-10	82959.0
-9	78580.4
-8	74458.7
-7	70577.4
-6	66921.2
-5	63475.8
-4	60228.0
-3	57165.3
-2	54276.1
-1	51549.8
0	48976.2
1	46546.0

Temp. °C	Ohms
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2	44250.4
3	42081.2
4	40030.8
5	38092.1
6	36258.4
7	34523.4
8	32881.3
9	31326.7
10	29854.4
11	28459.6
12	27137.9
13	25885.0
14	24697.0
15	23570.2
16	22501.1
17	21486.5
18	20523.3
19	19608.7
20	18739.9
21	17914.4
22	17129.8
23	16384.0
24	15674.7
25	15000.0
26	14358.1
27	13747.1
28	13165.5
29	12611.7
30	12084.2
31	11581.6
32	11102.6
33	10646.1
34	10210.7
35	9795.6
36	9399.5
37	9021.6
38	8660.9
39	8316.5
40	7987.7
41	7673.6
42	7373.5
43	7086.8

Temp. °C	Ohms
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44	6812.7
45	6550.7
46	6300.1
47	6060.5
48	5831.2
49	5611.8
50	5401.8
51	5200.7
52	5008.2
53	4823.8
54	4647.1
55	4477.8
56	4315.6
57	4160.1
58	4011.0
59	3868.0
60	3730.8
61	3599.2
62	3472.9
63	3351.6
64	3235.3
65	3123.5
66	3016.2
67	2913.1
68	2814.1
69	2718.9
70	2627.4
71	2539.5
72	2454.9
73	2373.6
74	2295.3
75	2220.1
76	2147.6
77	2077.9
78	2010.8
79	1946.3
80	1884.0
81	1824.1
82	1766.4
83	1710.8
84	1657.2
85	1605.6

Temp. °C	Ohms
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86	1555.8
87	1507.8
88	1461.5
89	1416.9
90	1373.8
91	1332.3
92	1292.2
93	1253.5
94	1216.1
95	1180.1
96	1145.3
97	1111.7
98	1079.2
99	1047.8
100	1017.5
101	988.2
102	959.9
103	932.5
104	906.1
105	880.5
106	855.7
107	831.8
108	808.6
109	786.2
110	764.6
111	743.6
112	723.3
113	703.6
114	684.6
115	666.2
116	648.3
117	631.0
118	614.3
119	598.1
120	582.3
121	567.1
122	552.3
123	538.0
124	524.1
125	510.6