

BETATHERM DATA SHEET

Product: BetaCurve Interchangeable Thermistor

Product Description

NTC thermistor soldered to 30 AWG Kynar Insulated wire.
Unit coated with Black Stycast 2850ft epoxy.

Customer:

N/A

Customer Part No.:

N/A

Application

No information available.

Betatherm Part No.:

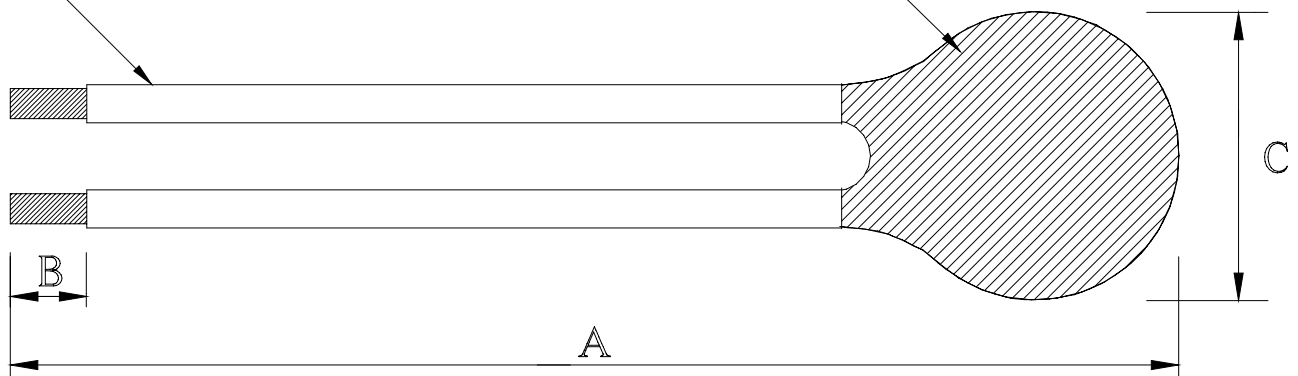
10K3A542i

Electrical Specifications

Parameter	Unit	Value
Resistance at +25°C	Ohms	10,000
Tolerance from 0°C to +70°C	°C	± 0.2
Alpha at +25°C	%/°C	-4.39
Beta Value _{25/85}	K	3976
Dissipation Constant	mW/°C	2.0 Approx.
Thermal Time Constant in liquid From +25°C to +75°C.	Seconds	< 1.3
Operating Temperature	°C	-40 to +125

30 AWG Solid Silver Plated Copper Wire
with White Kynar Insulation

Black Stycast
2850 ft Epoxy



Mechanical Details

Dimension		
A	B	C
200 ± 10 mm	10 ± 1mm	2.5mm Maximum

Packaging

Units supplied bags of 100.

Mounting

By soldering in any position.

Customer Approval(The Customer signs acceptance of the mechanical/electrical specification for the NTC thermistor)

Signed: _____ **Date:** _____



The information provided in this data sheet is not intended as a substitute for any testing that you may need to undertake to determine the suitability of the product for your application

• **CORPORATE HEADQUARTERS**
Betatherm Ireland Ltd.,
Ballybrit Business Park,
Galway,
Ireland.
Tel.: 353 – 91- 753238
Fax: 353 – 91 – 753615
E-mail: sales@betatherm.com

• **USA HEADQUARTERS**
Betatherm Corporation,
910 Turnpike Road,
Shrewsbury,
Massachusetts, 01545.
Tel.: 508 – 842 - 0516
Fax: 508 – 842 – 0748
E-mail: sales@betatherm-usa.com

Resistance/Temperature Chart

Temp. °C	Resistance
----------	------------

-40	335853.73
-39	314334.81
-38	294329.41
-37	275722.23
-36	258407.39
-35	242287.63
-34	227273.52
-33	213282.83
-32	200239.90
-31	188075.05
-30	176724.13
-29	166128.01
-28	156232.18
-27	146986.36
-26	138344.16
-25	130262.73
-24	122702.51
-23	115626.94
-22	109002.22
-21	102797.07
-20	96982.57
-19	91531.94
-18	86420.37
-17	81624.87
-16	77124.15
-15	72898.45
-14	68929.43
-13	65200.09
-12	61694.63
-11	58398.38
-10	55297.71
-9	52379.93
-8	49633.27
-7	47046.75
-6	44610.17
-5	42314.01
-4	40149.43
-3	38108.17
-2	36182.55
-1	34365.39
0	32650.00
1	31030.13
2	29499.96
3	28054.04
4	26687.28
5	25394.93
6	24172.55
7	23015.97
8	21921.31
9	20884.93
10	19903.41
11	18973.57
12	18092.41

Temp. °C	Resistance
----------	------------

13	17257.14
14	16465.12
15	15713.90
16	15001.15
17	14324.71
18	13682.54
19	13072.73
20	12493.48
21	11943.10
22	11420.02
23	10922.73
24	10449.83
25	10000.00
26	9572.00
27	9164.66
28	8776.88
29	8407.62
30	8055.91
31	7720.81
32	7401.47
33	7097.06
34	6806.81
35	6530.00
36	6265.93
37	6013.95
38	5773.46
39	5543.87
40	5324.63
41	5115.22
42	4915.16
43	4723.99
44	4541.26
45	4366.57
46	4199.51
47	4039.72
48	3886.85
49	3740.57
50	3600.55
51	3466.50
52	3338.15
53	3215.21
54	3097.43
55	2984.58
56	2876.42
57	2772.74
58	2673.33
59	2577.99
60	2486.54
61	2398.81
62	2314.61
63	2233.80
64	2156.22
65	2081.73

Temp. °C	Resistance
----------	------------

66	2010.18
67	1941.46
68	1875.43
69	1811.98
70	1751.00
71	1692.37
72	1636.00
73	1581.79
74	1529.64
75	1479.48
76	1431.20
77	1384.74
78	1340.02
79	1296.96
80	1255.50
81	1215.57
82	1177.10
83	1140.04
84	1104.33
85	1069.91
86	1036.73
87	1004.73
88	973.89
89	944.13
90	915.43
91	887.74
92	861.02
93	835.24
94	810.35
95	786.32
96	763.11
97	740.71
98	719.06
99	698.15
100	677.95
101	658.43
102	639.56
103	621.33
104	603.69
105	586.64
106	570.16
107	554.21
108	538.78
109	523.85
110	509.41
111	495.43
112	481.90
113	468.80
114	456.12
115	443.84
116	431.95
117	420.43
118	409.27

Temp. °C	Resistance
----------	------------

119	398.46
120	387.98
121	377.82
122	367.98
123	358.44
124	349.19
125	340.21



The information provided in this data sheet is not intended as a substitute for any testing that you may need to undertake to determine the suitability of the product for your application

• CORPORATE HEADQUARTERS
 Betatherm Ireland Ltd.,
 Ballybrit Business Park,
 Galway,
 Ireland.
 Tel.: 353 – 91- 753238
 Fax: 353 – 91 – 753615
 E-mail: sales@betatherm.com

• USA HEADQUARTERS
 Betatherm Corporation,
 910 Turnpike Road,
 Shrewsbury,
 Massachusetts, 01545.
 Tel.: 508 – 842 - 0516
 Fax: 508 – 842 – 0748
 E-mail: sales@betatherm-usa.com