

# High Rel Epoxy Coated Thermistor



- ESCC Qualified.
- Excellent stability.
- Flight heritage.
- Ease of mounting.
- Robust construction.
- Data Report including test data.
- Non ITAR restrictive.
- Approved by Prime Contractors
- ESCC Detail Specification No. 4006013.
- ESCC Part No. 400601304

## DESCRIPTION

Epoxy coated discrete NTC Thermistor chip soldered to 30AWG Tin/Lead (63/37) plated copper wires.

## FEATURES

ESCC qualified.  
 ESCC Detail Specification No. 4006013  
 ESCC Part No. 400601304.  
 Epoxy coated.  
 30AWG Tin/Lead (63/37) plated copper wires  
 Operating temperature range: -55°C to + 115°C.

## APPLICATIONS

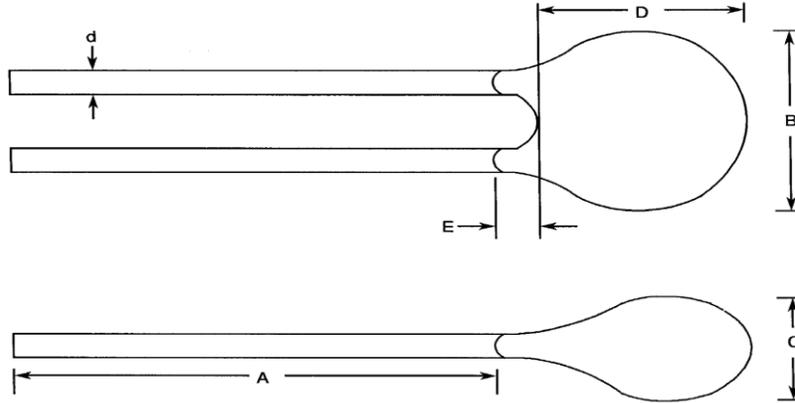
Satellite electric motors  
 Monitoring of gearboxes in satellites  
 Temperature compensation  
 Battery power packs  
 Control panel monitoring  
 Monitoring of actuators  
 Panel temperature measurement

## PERFORMANCE SPECS

Resistance @ +25°C	Ω	4,000
Tolerance @ -55°C	%	± 3.70
Tolerance @ -40°C	%	± 2.33
Tolerance @ -25°C	%	± 2.10
Tolerance @ 0°C	%	± 1.02
Tolerance @ +25°C	%	± 0.88
Tolerance @ +75°C	%	± 1.16
Tolerance @ +100°C	%	± 1.46
Tolerance @ +115°C	%	± 1.36
0/50 Beta value	K	3892
Operating Range	°C	-55 to +115
Storage Temp	°C	-55 to +115
Power Dissipation	mW	2
Thermal Time Constant	s	25
Weight	g	0.5 max

# High Rel Epoxy Coated Thermistor

## MECHANICAL DETAILS



Dimensions						
	A	B	C	D	d	E
Min	50.8	-	-	-	0.23	-
Max	-	2.54	2.54	3.50	0.28	1.6

## RESISTANCE V TEMPERATURE TABLE

Temp. °C	Ohms
----------	------

-55	383,916
-50	266,888
-45	188,112
-40	134,268
-35	96,840
-30	70,651
-25	52,098
-20	38,784
-15	29,155
-10	22,117
-5	16,925
0	13,060
1	12,412
2	11,800
3	11,221
4	10,675
5	10,158
6	9,669
7	9,206
8	8,768
9	8,354
10	7,961

Temp. °C	Ohms
----------	------

11	7,589
12	7,237
13	6,902
14	6,586
15	6,285
16	6,000
17	5,729
18	5,473
19	5,229
20	4,997
21	4,777
22	4,568
23	4,369
24	4,179
<b>25</b>	<b>4,000</b>
26	3,828
27	3,665
28	3,510
29	3,363
30	3,222
31	3,088
32	2,960

Temp. °C	Ohms
----------	------

33	2,838
34	2,722
35	2,612
36	2,506
37	2,405
38	2,309
39	2,217
40	2,129
41	2,046
42	1,966
43	1,889
44	1,816
45	1,746
46	1,679
47	1,615
48	1,554
49	1,496
50	1,440
51	1,386
52	1,335
53	1,286
54	1,239

Temp. °C	Ohms
----------	------

55	1,193
56	1,150
57	1,109
58	1,069
59	1,031
60	994
61	959
62	926
63	893
64	862
65	832
66	804
67	776
68	750
69	724
70	700
80	502
90	366
100	271.4
105	234.9
110	204.0
115	177.8

# High Rel Epoxy Coated Thermistor

## ORDERING INFORMATION

Part Number	Description	Res. at 25°C	ESCC No.
4K3A354	Hi-Rel Leaded Discrete	4,000	400601304

### NORTH AMERICA

Measurement Specialties, Inc.  
910 Turnpike Road  
Shrewsbury, MA 01545  
Tel: 1-508-842-0516  
Fax: 1-508-842-0342  
Sales:  
[temperature.cs.amer@meas-spec.com](mailto:temperature.cs.amer@meas-spec.com)

### EUROPE

Measurement Specialties, Inc  
Ballybrit Business Park  
Galway Ireland  
Tel: +353-91-753238  
Fax: +353-91-770789  
Sales:  
[temperature.cs.emea@meas-spec.com](mailto:temperature.cs.emea@meas-spec.com)

### ASIA

Measurement Specialties (China) Ltd.  
No. 26, Langshan Road,  
Shenzhen High-tech Park (North)  
Nanshan District, Shenzhen,  
China 518057  
Sales:  
[temperature.cs.asia@meas-spec.com](mailto:temperature.cs.asia@meas-spec.com)

The information in this sheet has been carefully reviewed and is believed to be accurate; however, no responsibility is assumed for inaccuracies. Furthermore, this information does not convey to the purchaser of such devices any license under the patent rights to the manufacturer. Measurement Specialties, Inc. reserves the right to make changes without further notice to any product herein. Measurement Specialties, Inc. makes no warranty, representation or guarantee regarding the suitability of its product for any particular purpose, nor does Measurement Specialties, Inc. assume any liability arising out of the application or use of any product or circuit and specifically disclaims any and all liability, including without limitation consequential or incidental damages. Typical parameters can and do vary in different applications. All operating parameters must be validated for each customer application by customer's technical experts. Measurement Specialties, Inc. does not convey any license under its patent rights nor the rights of others.