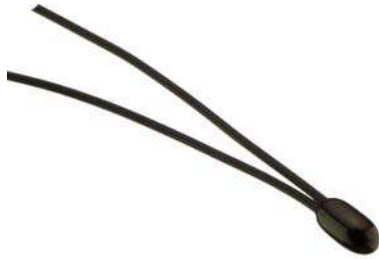


5K3MR1I Moisture Resistant Thermistor



- Climatic category (IEC 60068-1) 40/125/56
- Ø 2.5 mm Maximum Diameter
- 30 AWG Solid Silver Plated Nickel Leads with Black Kynar Insulation
- Rapid Time Response
- RoHS Compliant

DESCRIPTION

The BetaCURVE Chip is Soldered to 30 AWG Solid Silver Plated Nickel Leads with Black Kynar Insulation. Device is Encapsulated in Resin Powder.

FEATURES

- Climatic category (IEC 60068-1) 40/125/56
- Interchangeability
- Proven Stability and Reliability
- Rapid time response
- Kynar Insulated lead Wires
- Temperature range -40 °C to +125°C

APPLICATIONS

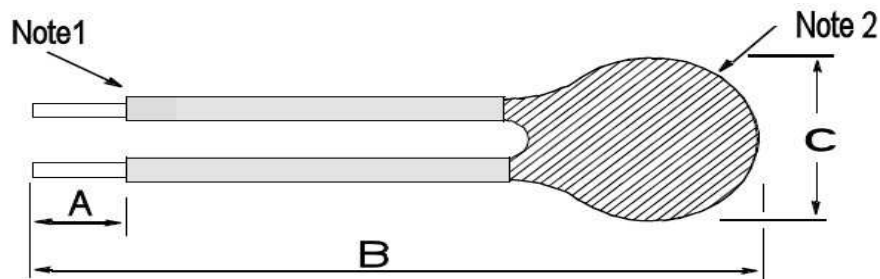
- Temperature sensing in environments where thermal shock and humidity are present
- Fire Detection Systems
- Assembly into probes for a wide variety of applications
- Air conditioning systems
- Refrigeration control

PERFORMANCE SPECS

Parameters	Units	Value
Resistance @ +25°C	Ohms	5,000
Resistance tolerance @ +25°C	%	± 1
Beta Value 25/85	K	3976
Tolerance on Beta Value 25/85	%	± 2
Time response in Liquids	Seconds	<2
Dissipation Constant in still air	W/°C	1.5

5K3MR1I Moisture Resistant Thermistor

MECHANICAL DETAILS



	Dimensions		
	A	B	C
	5 ± 1mm	50 ± 3mm	2.5mm Max
Note 1	30AWG Solid Silver Plated Nickel Leads with Black Kynar Insulation		
Note 2	Brown Epoxy Resin		

RESISTANCE V TEMPERATURE TABLE

Temp. °C	Ohms
----------	------

-40	167862
-39	157111
-38	147117
-37	137820
-36	129169
-35	121114
-34	113611
-33	106620
-32	100102
-31	94022
-30	88349
-29	83054
-28	78107
-27	73486
-26	69166
-25	65127
-24	61348
-23	57811
-22	54499
-21	51397
-20	48490
-19	45765
-18	43210

Temp. °C	Ohms
----------	------

-17	40812
-16	38562
-15	36450
-14	34465
-13	32601
-12	30848
-11	29200
-10	27649
-9	26191
-8	24817
-7	23524
-6	22306
-5	21158
-4	20075
-3	19055
-2	18092
-1	17183
0	16325
1	15515
2	14750
3	14027
4	13344
5	12698

Temp. °C	Ohms
----------	------

6	12086
7	11508
8	10961
9	10443
10	9952
11	9487
12	9046
13	8629
14	8233
15	7857
16	7501
17	7162
18	6841
19	6536
20	6247
21	5972
22	5710
23	5461
24	5225
25	5000
26	4786
27	4582
28	4388

Temp. °C	Ohms
----------	------

29	4204
30	4028
31	3860
32	3701
33	3549
34	3403
35	3265
36	3133
37	3007
38	2887
39	2772
40	2662
41	2558
42	2458
43	2362
44	2271
45	2183
46	2100
47	2020
48	1944
49	1870
50	1800
51	1733

5K3MR1I Moisture Resistant Thermistor

52	1669
53	1608
54	1549
55	1493
56	1438
57	1387
58	1337
59	1289
60	1244
61	1200
62	1158
63	1117
64	1078
65	1041
66	1005
67	971
68	938
69	906
70	876

71	847
72	818
73	791
74	765
75	740
76	716
77	693
78	670
79	649
80	628
81	608
82	589
83	570
84	553
85	535
86	519
87	503
88	487
89	472

90	458
91	444
92	431
93	418
94	406
95	394
96	382
97	371
98	360
99	349
100	339
101	330
102	320
103	311
104	302
105	294
106	285
107	277
108	270

109	262
110	255
111	248
112	241
113	235
114	228
115	222
116	216
117	211
118	205
119	200
120	194
121	189
122	184
123	180
124	175
125	170

ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ
5K3MR1I	Moisture Resistant Thermistor	5,000	1,000*

* For quantities less than Minimum Order Quantity – Contact Distribution

NORTH AMERICA

Measurement Specialties, Inc.
910 Turnpike Road
Shrewsbury, MA 01545
Tel: 1-508-842-0516
Fax: 1-508-842-0342

Sales email:
temperature.sales.amer@meas-spec.com

EUROPE

Measurement Specialties, Inc
Ballybrit Business Park
Galway Ireland
Tel: +353-91-753238
Fax: +353-91-770789

Sales email:
temperature.sales.emea@meas-spec.com

ASIA

Measurement Specialties (China) Ltd.
No. 26 Langshan Road
Shenzhen High-Tech Park (North)
Nanshan District, Shenzhen 51807
China
Tel: +86 (0) 755 33305088
Fax: +86 (0) 755 33305099

Sales email:
temperature.sales.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.