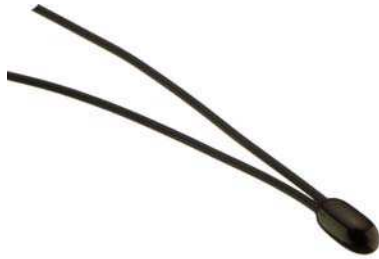


10K3MR1I Moisture Resistant Thermistor



- 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

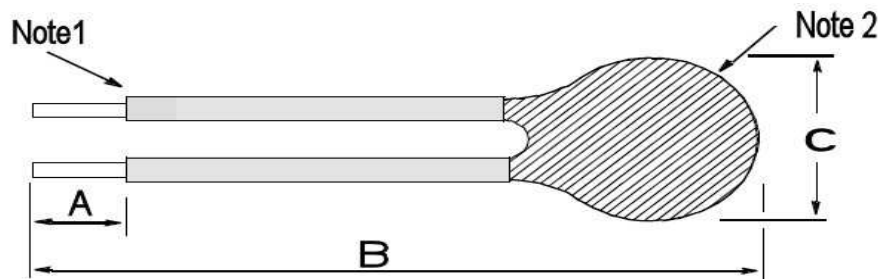
- Temperature sensing in environments where thermal shock and humidity are present
- Fire Detection Systems
- Assembly into probes for a wide variety of applications
- Air conditioning systems
- Refrigeration control

PERFORMANCE SPECS

Parameters	Units	Value
Resistance @ +25°C	Ohms	10,000
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

10K3MR1I 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	Temp. °C	Ohms	Temp. °C	Ohms	Temp. °C	Ohms
-40	336098	-17	81641	6	24172	29	8408
-39	314553	-16	77138	7	23016	30	8056
-38	294524	-15	72911	8	21921	31	7721
-37	275897	-14	68940	9	20885	32	7402
-36	258563	-13	65209	10	19903	33	7097
-35	242427	-12	61703	11	18973	34	6807
-34	227398	-11	58405	12	18092	35	6530
-33	213394	-10	55304	13	17257	36	6266
-32	200339	-9	52385	14	16465	37	6014
-31	188163	-8	49638	15	15714	38	5774
-30	176803	-7	47050	16	15001	39	5544
-29	166198	-6	44613	17	14324	40	5325
-28	156294	-5	42317	18	13682	41	5116
-27	147042	-4	40151	19	13073	42	4916
-26	138393	-3	38110	20	12493	43	4724
-25	130306	-2	36184	21	11943	44	4542
-24	122741	-1	34366	22	11420	45	4367
-23	115661	0	32651	23	10923	46	4200
-22	109032	1	31031	24	10450	47	4040
-21	102824	2	29500	25	10000	48	3887
-20	97006	3	28054	26	9572	49	3741
-19	91553	4	26687	27	9165	50	3601
-18	86439	5	25395	28	8777	51	3467

10K3MR1I Moisture Resistant Thermistor

52	3339
53	3216
54	3098
55	2985
56	2877
57	2773
58	2674
59	2579
60	2487
61	2399
62	2315
63	2234
64	2157
65	2082
66	2011
67	1942
68	1876
69	1813
70	1752

71	1693
72	1637
73	1582
74	1530
75	1480
76	1432
77	1385
78	1341
79	1298
80	1256
81	1216
82	1178
83	1141
84	1105
85	1070
86	1037
87	1005
88	974
89	945

90	916
91	888
92	862
93	836
94	811
95	787
96	764
97	741
98	720
99	699
100	678
101	659
102	640
103	622
104	604
105	587
106	571
107	555
108	539

109	524
110	510
111	496
112	482
113	469
114	457
115	444
116	432
117	421
118	410
119	399
120	388
121	378
122	368
123	359
124	350
125	341

ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ
10K3MR1I	Moisture Resistant Thermistor	10,000	1,000*

* For quantities less than Minimum Order Quantity – Contact Distribution

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