

GA100K6D234 THERMISTOR PROBE

Description

- NTC thermistor soldered to 28 AWG stranded silver-plated copper wire with black TFE Insulation. UL style 1371.
- This NTC assembly features a mylar tube housing for good dimensional control of the tip. Assembly potted with black thermally conductive epoxy resin.

Features

- Proven stability and reliability
- Controlled tip geometry
- Thermally conductive epoxy potting compound
- Temperature range -40°C to +125°C
- Proven stability and reliability

Specifications

- 100,000 Ohms Resistance @ +25°C
- $\pm 0.2^{\circ}\text{C}$ Resistance Tolerance from 0°C to +70°C
- Beta 0/50 = $4143 \pm 0.3\%$

Applications

- General temperature sensing

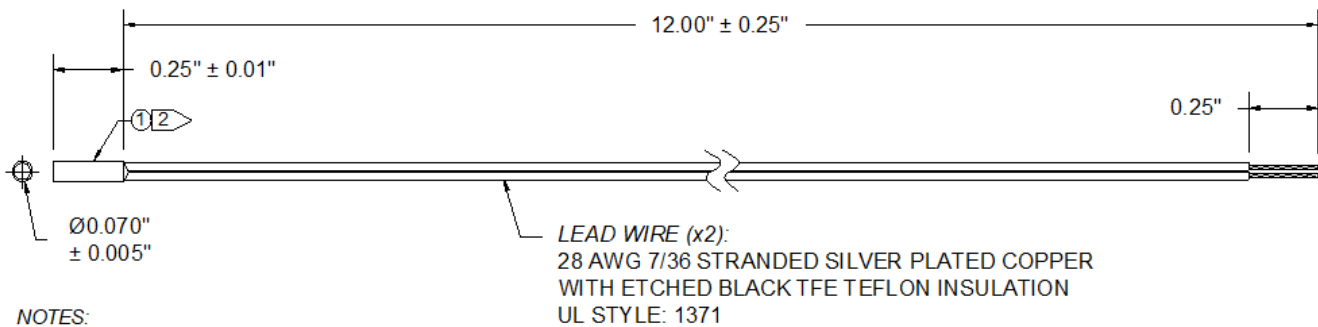
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THERMISTOR PROBE

Performance specifications

Parameters	Units	Value
Zero power resistance @ 25°C	Ohms	100,000
Temperature Tolerance from 0°C to 70°C	°C	± 0.2
Zero power resistance @ 125°C	Ohms	2,642
Temperature Tolerance @ 125°C	°C	± 3
Alpha @ 25°C	%/°C	-4.68
Beta Value 0/50	K	4143
Tolerance on Beta Value 0/50	%	± 0.30
Dissipation Constant in Still Air @ 25°C Before Mounting in Probe	mW/°C	3 (typ.)
Time Constant in Well Stirred Oil Bath Before Mounting in Probe	Second	1 (typ.)

Mechanical details



NOTES:

- ① MYLAR TUBE: $\varnothing 0.065'' \times 0.062''$ ID $\times 0.0015''$ WALL.
- ② ENCAPSULATION: THERMALLY CONDUCTIVE BLACK EPOXY
- 3 ALL DIMENSIONS ARE INCHES

Resistance v temperature table

Temp °C	Ohms
-40	4071186
-39	3798837
-38	3546330
-37	3312107
-36	3094743
-35	2892930
-34	2705469
-33	2531260
-32	2369292
-31	2218639
-30	2078448
-29	1947934
-28	1826376
-27	1713112
-26	1607529
-25	1509065
-24	1417202
-23	1331461
-22	1251401
-21	1176615
-20	1106727
-19	1041391
-18	980285
-17	923112
-16	869600
-15	819493
-14	772557
-13	728575
-12	687344
-11	648680
-10	612407
-9	578366
-8	546408
-7	516394
-6	488196
-5	461695
-4	436779
-3	413346
-2	391300
-1	370551
0	351017
1	332620

Temp °C	Ohms
2	315288
3	298954
4	283555
5	269034
6	255335
7	242408
8	230206
9	218684
10	207801
11	197518
12	187799
13	178610
14	169921
15	161700
16	153921
17	146558
18	139586
19	132983
20	126727
21	120799
22	115179
23	109850
24	104795
25	100000
26	95449
27	91129
28	87027
29	83131
30	79430
31	75913
32	72569
33	69390
34	66367
35	63491
36	60755
37	58150
38	55670
39	53309
40	51060
41	48917
42	46875
43	44929

Temp °C	Ohms
44	43073
45	41303
46	39615
47	38005
48	36467
49	35000
50	33599
51	32262
52	30984
53	29763
54	28596
55	27481
56	26415
57	25395
58	24420
59	23487
60	22594
61	21740
62	20922
63	20138
64	19388
65	18670
66	17981
67	17322
68	16689
69	16083
70	15502
71	14945
72	14410
73	13897
74	13405
75	12932
76	12478
77	12043
78	11625
79	11223
80	10837
81	10466
82	10109
83	9767
84	9437
85	9121

Temp °C	Ohms
86	8816
87	8523
88	8241
89	7970
90	7708
91	7457
92	7215
93	6982
94	6758
95	6541
96	6333
97	6132
98	5939
99	5753
100	5573
101	5400
102	5232
103	5071
104	4916
105	4766
106	4621
107	4481
108	4346
109	4216
110	4090
111	3969
112	3852
113	3738
114	3629
115	3523
116	3421
117	3322
118	3227
119	3134
120	3045
121	2959
122	2875
123	2794
124	2716
125	2640

THERMISTOR PROBE

Ordering information

TE Pn	Description	Resistance @ +25°C	MOQ
GA100K6D234	NTC thermistor probe	100,000	1,000*

*For orders less than MOQ, contact Sales

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