

Fast Time Response Probe



- Fast time response <1 Second
- Small diameter for use in restricted areas
- Brass material to give good thermal transfer
- Various leads lengths available
- RoHS Compliant

DESCRIPTION

This thermistor is potted in a Mylar sleeve and then in a brass housing using Stycast epoxy resin.

FEATURES

Custom tolerances available on request
Available in a range of R/T curves
Temperature range -40 °C to +125°C
Small diameter for fast time response

APPLICATIONS

Suitable for HVACR applications
Water flow monitoring
Gas Boilers
General Instrumentation applications

PERFORMANCE SPECS

Parameters	Units	Value
Resistance @ +25°C	Ohms	10,000
Resistance tolerance from 0°C to +25°C	°C	±0.1
Beta Value 25/85	K	3976
Tolerance on Beta Value 25/85	%	±0.5
Time response in Liquids	Seconds	<1
Insulation Resistance (Min. of 100Mohms for 1 Sec.)	Volts	500

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MECHANICAL DETAILS

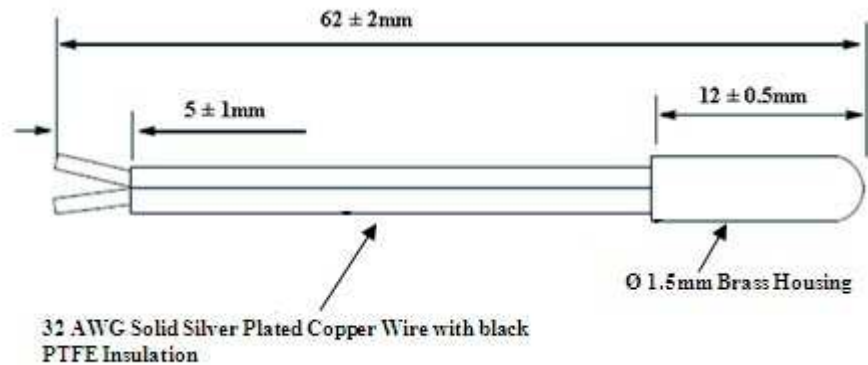


Figure 1: Fast time response probe

RESISTANCE V TEMPERATURE TABLE

Temp. °C	Ohms
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-40	336098
-39	314553
-38	294524
-37	275897
-36	258563
-35	242427
-34	227398
-33	213394
-32	200339
-31	188163
-30	176803
-29	166198
-28	156294
-27	147042
-26	138393
-25	130306
-24	122741
-23	115661
-22	109032
-21	102824
-20	97006
-19	91553
-18	86439
-17	81641
-16	77138

Temp. °C	Ohms
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-15	72911
-14	68940
-13	65209
-12	61703
-11	58405
-10	55304
-9	52385
-8	49638
-7	47050
-6	44613
-5	42317
-4	40151
-3	38110
-2	36184
-1	34366
0	32651
1	31031
2	29500
3	28054
4	26687
5	25395
6	24172
7	23016
8	21921
9	20885

Temp. °C	Ohms
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10	19903
11	18973
12	18092
13	17257
14	16465
15	15714
16	15001
17	14324
18	13682
19	13073
20	12493
21	11943
22	11420
23	10923
24	10450
25	10000
26	9572
27	9165
28	8777
29	8408
30	8056
31	7721
32	7402
33	7097
34	6807

Temp. °C	Ohms
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35	6530
36	6266
37	6014
38	5774
39	5544
40	5325
41	5116
42	4916
43	4724
44	4542
45	4367
46	4200
47	4040
48	3887
49	3741
50	3601
51	3467
52	3339
53	3216
54	3098
55	2985
56	2877
57	2773
58	2674
59	2579

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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
60	2487
61	2399

62	2315
63	2234
64	2157
65	2082
66	2011
67	1942
68	1876
69	1813
70	1752
71	1693
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117	421
118	410
119	399
120	388
121	378
122	368
123	359
124	350
125	341

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ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ
10K3D595	Fast time response probe	10,000	1000*

* For quantities less than Minimum Order Quantity – contact distribution

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