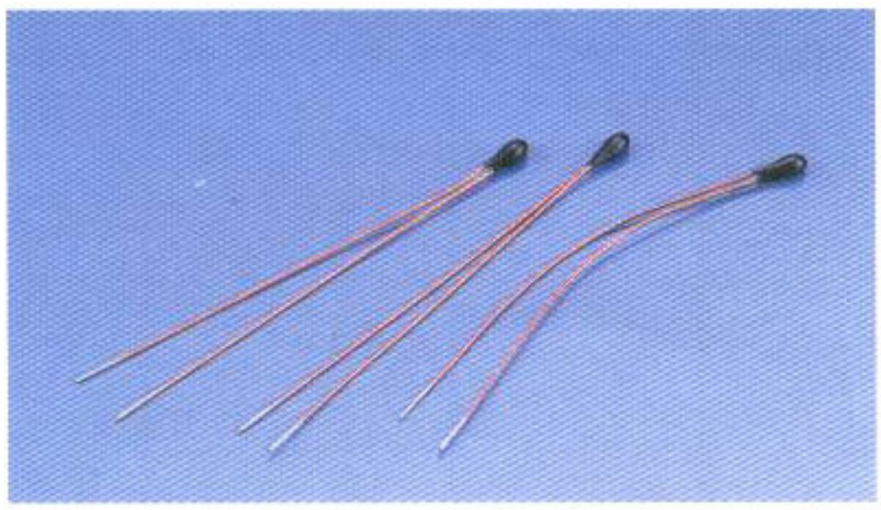
Point Matched NTC Thermistors

PM Series



FEATURES:

- Tolerance resistance matched to specific temperature
- Reduced cost for high volume applications
- Proprietary processes produce top of the line quality and stability
- ±1% to ±10% tolerances

PM Series thermistors are precision tested at a chosen tolerance to a specific temperature. This cost effective thermistor provides an advantage to industries with high volume applications, such as in HVAC, automotive, and industrial markets.

SPECIFICATIONS

Temperature rating/ recommended operating ranges	PM Series thermistors may be intermittently cycled at temperatures from −50℃ to 150℃. Optimum stability is achieved when they are stored at temperatures less than 50 ℃ and operated continuously in temperatures less than 100℃.
R/T curves	PM Series thermistors are available in all R/T curve materials. Detailed curve material information on pages 23-25 .
Standard Point Matched temperature	-20℃ 0℃ 25℃ 37℃ 70℃ 100℃
Tolerances	±0.25℃ ±0.5℃ ±1% ±2% ±5% ±10%
Dissipation constant	2mW/℃ in still air 13mW/℃ in stirred oil
Thermal time constant	Typically 0.75 second in stirred oil
Maximum power rating	30mW at 25℃ to 1mW at 100℃ (used in "self-heat" applications such as liquid level control and air flow sensing)
Custom options	Additional temperature and tolerance ranges. Various lead materials, diameters and lengths

ORDERING INFORMATION

Examples of Point Matched NTC Thermistors - PM Series

Part #	R/T Curve	Res. In ohms @25℃	Tolerance	Point Matched	Lead Type	AWG	Coating	O.L.
PM-A2252-13-13	A	2,252	±1%	25℃	Tinned copper	30	Phenolic	2"
PM-A010K-13-13	A	10K	±1%	25℃	Tinned copper	30	Phenolic	3"
PM-C010K-13-23	C	10K	±1%	25℃	Tinned copper	30	Phenolic	2"
PM-A005K-33-13	A	5K	±3%	25℃	Tinned copper	30	Phenolic	3"
PM-A100K-33-13	A	100K	±3%	25℃	Tinned copper	30	Phenolic	2"
PM-A2252-53-13	A	2,252	±5%	25℃	Tinned copper	30	Phenolic	2"
PM-A2252-53-15	A	2,252	±5%	25℃	Tinned copper	28	Phenolic	2"
PM-A005K-53-13	A	5K	±5%	25℃	Tinned copper	30	Phenolic	2"
PM-D100K-03-13	D	100K	±10%	25℃	Tinned copper	30	Phenolic	2"
PM-J1MEG-03-15	J	1MEG	±10%	25℃	Tinned copper	28	Phenolic	2"

Point Matched NTC Thermistors

PM Series - Order Map

PM- □ □□□□ □ □ □ □ -XX

R/T CURVE

A=Curve A G=Curve G
B=Curve B H=Curve H
C=Curve C J=Curve J
D=Curve D K=Curve K
E=Curve E P=Curve P
F=Curve F

Resistance in ohms @25℃

0300=300ohms
001K=1K ohms
005K=5K ohms
006K=6K ohms
010K=10K ohms
100K=100K ohms
2252=2,252 ohms
1MEG=1MEG ohms

Tolerance at 25℃

1=±1% 0=±10%
2=±2% A=±0.25 ℃
3=±3% B=±0.50 ℃
5=±5% X=letter or digit to be assigned on specials

Temperature Ranges

1=-20℃ 4= 37 ℃
2= 0℃ 5= 70 ℃
3= 25℃ 6=100 ℃
X=digit to be assigned on specials

2"Leads

Code	AWG	Lead o.d.	Lead Type	Chip Coating
04	30	0.010"	Tinned Copper	Uncoated
05	26	0.0169"	Tinned Copper	Epoxy
06	28	0.0126"	Tinned Copper	Epoxy
07	32	0.008"	Tinned Copper	Phenolic
08	30	0.010"	Nickel	Phenolic
09	26	0.0159"	Tinned Copper	Uncoated
10	26	0.0159"	Tinned Copper	Phenolic
11	32	0.008"	Nickel	Phenolic
12	32	0.008"	Tinned Copper	Epoxy
13	30	0.010"	Tinned Copper	Phenolic
14	30	0.010"	Tinned Copper	Epoxy
15	28	0.0126"	Tinned Copper	Phenolic
16	28	0.0126"	Tinned Copper	Uncoated
17	32	0.008"	Tinned Alloy 180	Phenolic
18	32	0.008"	Tinned Alloy 180	Epoxy
19	32	0.008"	Tinned Copper	Uncoated
20	28	0.0126"	Nickel	Phenolic

3"Leads

Code	AWG	Lead o.d.	Lead Type	Chip Coating
21	32	0.008"	Nickel	Phenolic
22	32	0.008"	Tinned Copper	Epoxy
23	30	0.010"	Tinned Copper	Phenolic
24	30	0.010"	Tinned Copper	Epoxy
25	28	0.0126"	Tinned Copper	Phenolic
26	28	0.0126"	Tinned Copper	Epoxy
27	32	0.008"	Tinned Alloy 180	Phenolic
28	32	0.008"	Tinned Alloy 180	Epoxy
31	30	0.010"	Red Teflon Alloy 180	Epoxy
41*	30	0.010"	Ag/Cu Twisted Kynar	Epoxy

*6K to 30K only

For optional lengths other than 2" or 3" substitute XX with lengths in inches
Example 4"=04