



FEATURES:

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

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°C to 150°C . Optimum stability is achieved when they are stored at temperatures less than 50°C and operated continuously in temperatures less than 100°C .	Tolerances	$\pm 0.25^{\circ}\text{C}$ $\pm 0.5^{\circ}\text{C}$ $\pm 1\%$ $\pm 2\%$ $\pm 5\%$ $\pm 10\%$
R/T curves	PM Series thermistors are available in all R/T curve materials. Detailed curve material information on pages 22-24 .	Dissipation constant	2mW/ $^{\circ}\text{C}$ in still air 13mW/ $^{\circ}\text{C}$ in stirred oil
Standard Point Matched temperature	-20°C 0°C 25°C 37°C 70°C 100°C	Thermal time constant	Typically 0.75 second in stirred oil
		Maximum power rating	30mW at 25°C to 1mW at 100°C (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°C	Tolerance	Point Matched	Lead Type	AWG	Coating	O.L.
PM-A2252-13-14	A	2,252	$\pm 1\%$	25°C	Tinned copper	30	Epoxy	2"
PM-A010K-13-14	A	10K	$\pm 1\%$	25°C	Tinned copper	30	Epoxy	3"
PM-C010K-13-24	C	10K	$\pm 1\%$	25°C	Tinned copper	30	Epoxy	2"
PM-A005K-33-14	A	5K	$\pm 3\%$	25°C	Tinned copper	30	Epoxy	3"
PM-A100K-33-14	A	100K	$\pm 3\%$	25°C	Tinned copper	30	Epoxy	2"
PM-A2252-53-14	A	2,252	$\pm 5\%$	25°C	Tinned copper	30	Epoxy	2"
PM-A2252-53-16	A	2,252	$\pm 5\%$	25°C	Tinned Alloy 180	28	Epoxy	2"
PM-A005K-53-14	A	5K	$\pm 5\%$	25°C	Tinned copper	30	Epoxy	2"
PM-D100K-03-14	D	100K	$\pm 10\%$	25°C	Tinned copper	30	Epoxy	2"
PM-J1MEG-03-16	J	1MEG	$\pm 10\%$	25°C	Tinned copper	28	Epoxy	2"

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°C

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°C

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

Temperature Ranges

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

2"Leads					3"Leads				
Code	AWG	Lead OD	Lead Type	Chip Coating	Code	AWG	Lead OD	Lead Type	Chip Coating
20	24	0.0197"	Tinned Copper	Epoxy	30	24	0.0197"	Tinned Copper	Epoxy
21	26	0.0159"	Tinned Copper	Epoxy	31	26	0.0159"	Tinned Copper	Epoxy
22	28	0.0126"	Tinned Copper	Epoxy	32	28	0.0126"	Tinned Copper	Epoxy
23	30	0.010"	Tinned Copper	Epoxy	33	30	0.010"	Tinned Copper	Epoxy
24	30	0.010"	Alloy 180	Epoxy	34	30	0.010"	Alloy 180	Epoxy
25	32	0.008"	Tinned Copper	Epoxy	35	32	0.008"	Tinned Copper	Epoxy
26	32	0.008"	Alloy 180	Epoxy	36	32	0.008"	Alloy 180	Epoxy

For optional lengths other than 2" or 3" substitute XX with lengths in inches