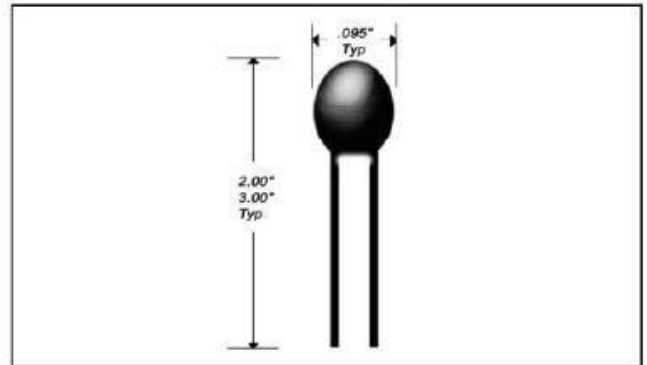




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# Point Matched NTC Thermistors

## 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
- $\pm 1\%$  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

<b>Temperature rating/ recommended operating ranges</b>	PM Series thermistors may be intermittently cycled at temperatures from $-50^{\circ}\text{C}$ to $150^{\circ}\text{C}$ . Optimum stability is achieved when they are stored at temperatures less than $50^{\circ}\text{C}$ and operated continuously in temperatures less than $100^{\circ}\text{C}$ .	<b>Tolerances</b>	$\pm 0.25^{\circ}\text{C}$ $\pm 0.5^{\circ}\text{C}$ $\pm 1\%$ $\pm 2\%$ $\pm 5\%$ $\pm 10\%$
<b>R/T curves</b>	PM Series thermistors are available in all R/T curve materials. Detailed curve material information on pages 23-25.	<b>Dissipation constant</b>	2mW/ $^{\circ}\text{C}$ in still air 13mW/ $^{\circ}\text{C}$ in stirred oil
<b>Standard Point Matched temperature</b>	$-20^{\circ}\text{C}$ $0^{\circ}\text{C}$ $25^{\circ}\text{C}$ $37^{\circ}\text{C}$ $70^{\circ}\text{C}$ $100^{\circ}\text{C}$	<b>Thermal time constant</b>	Typically 0.75 second in stirred oil
		<b>Maximum power rating</b>	30mW at $25^{\circ}\text{C}$ to 1mW at $100^{\circ}\text{C}$ (used in "self-heat" applications such as liquid level control and air flow sensing)
		<b>Custom options</b>	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 $^{\circ}\text{C}$	Tolerance	Point Matched	Lead Type	AWG	Coating	O.L.
PM-A2252-13-14	A	2,252	$\pm 1\%$	$25^{\circ}\text{C}$	Tinned copper	30	Epoxy	2"
PM-A010K-13-14	A	10K	$\pm 1\%$	$25^{\circ}\text{C}$	Tinned copper	30	Epoxy	3"
PM-C010K-13-24	C	10K	$\pm 1\%$	$25^{\circ}\text{C}$	Tinned copper	30	Epoxy	2"
PM-A005K-33-14	A	5K	$\pm 3\%$	$25^{\circ}\text{C}$	Tinned copper	30	Epoxy	3"
PM-A100K-33-14	A	100K	$\pm 3\%$	$25^{\circ}\text{C}$	Tinned copper	30	Epoxy	2"
PM-A2252-53-14	A	2,252	$\pm 5\%$	$25^{\circ}\text{C}$	Tinned copper	30	Epoxy	2"
PM-A2252-53-16	A	2,252	$\pm 5\%$	$25^{\circ}\text{C}$	Tinned Alloy 180	28	Epoxy	2"
PM-A005K-53-14	A	5K	$\pm 5\%$	$25^{\circ}\text{C}$	Tinned copper	30	Epoxy	2"
PM-D100K-03-14	D	100K	$\pm 10\%$	$25^{\circ}\text{C}$	Tinned copper	30	Epoxy	2"
PM-J1MEG-03-16	J	1MEG	$\pm 10\%$	$25^{\circ}\text{C}$	Tinned copper	28	Epoxy	2"



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# 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°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