# MF52





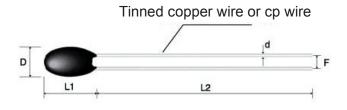
Pearl-Shaped Precision NTC Thermistor for Temperature Measurement

# **MF52**



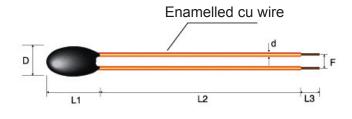
**Pearl-Shaped Precision NTC Thermistor for Temperature Measurement.** The MF52 series is ethoxyline resin coated. The small size is made possible by new materials and manufacturing methods which provide the benefit of close tolerances and fast response. MF52 thermistors are available with 5 lead styles in standard or custom lengths.

# Dimensions (mm) =



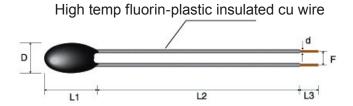
## A: Tin. Ag. nickel plated cu wire

Code	D max	L <sub>1</sub> max	L <sub>2</sub> min	d +/- 0.05	F +/- 0.5
A1	2.5	4.0	25	0.3	1.7
A2	3	4.5	25	0.45	2.2



#### B: Enamelled cu wire

Code	D max	L <sub>1</sub> max	L <sub>2</sub> min	L <sub>3</sub> +/- 1	d +/- 0.05
B1	2	3.5	3.5 Customer Specified		0.2
B2	3	4	Customer Specified	3	0.3



# C: High temp fluorin-plastic wire

Code	D max	L <sub>1</sub> max	L <sub>1</sub> L <sub>2</sub> min		d +/- 0.05
C1	3	7.5	Customer Specified	5	0.26
C2	4	7.5	Customer Specified	5	0.32

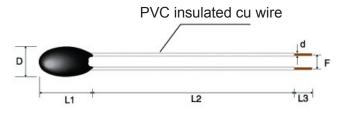


#### **Application**

- Heating, Ventilation & Air Conditioning
- Temperature Regulation and Measurement
- Electronic Thermometers
- · Liquid Level Sensing
- Automotive Electronics
- Medical Equipment and Apparatus
- Battery Packs and Portable Electronics

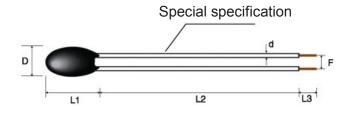
#### **Characteristics**

- Small Size and fast response
- Available tolerances: ±1%, ±2%, ±3%, ±5% and ±10%
- Long-term Stability and Reliability
- Excellent Tolerance and Interchangeability
- Available in all popular resistance values
- Dissipation Constant ≥2.0mW/°C
- Time Constant of ≤7 seconds in still air
- Available in custom probes



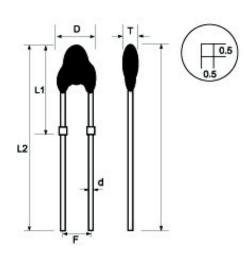
#### D: PVC wire

Code	D max	L <sub>1</sub> max	L <sub>2</sub> min	L <sub>3</sub> +/- 1	d +/- 0.05
D1	3	7.5	Customer Specified	5	0.26
D2	4	7.5	Customer Specified	5	0.32



### E: Lead and head according to specification

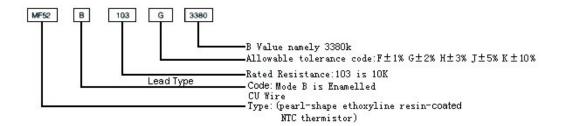
Code	D max	L <sub>1</sub> max	L <sub>2</sub> min	L <sub>3</sub> +/- 1	d +/- 0.05
E1	Customer Specified	Customer Specified	Customer Specified	5	Customer Specified
E2	Customer Specified	Customer Specified	Customer Specified	5	Customer Specified



#### F: Tinned lead-frame style

Code	D	L <sub>1</sub>	L <sub>2</sub>	d	F	T
	max	max	+/- 1.5	max	+/- 0.5	max
F	3.8	9.5	17	0.5	2.5	3.5

# Specification



#### Main Techno-Parameter

Part No.	Rated Resistance R <sub>25</sub> (KΩ)	B Value (25/50°C) (K)	Rated Power(mw)	Dissi. Coef. (mW/ °C)	Thermal time Constant(S)	Operating Temp.(°C)
MF52DD3100 MF52DD3270 MF52DD3380 MF52DD3470 MF52DD3600 MF52DD3950 MF52DD4000 MF52DD4050 MF52DD4150 MF52DD4300 MF52DD4300 MF52DD4500	0.1-20 0.2-20 0.5-50 0.5-50 1-100 5-100 5-200 10-250 20-1000 20-1000	3100 3270 3380 3470 3600 3950 4000 4050 4150 4300 4500	≤ 50	≥ 2.0 In Still Air	≤7 In Still Air	-55° - +125°C

#### Remark:





<sup>\*</sup> Specifications are subject to change without notice.



8415 Mountain Sights Avenue • Montreal (Quebec), H4P 2B8, Canada **Tel**: (514) 739-3274 • 1-800-561-7207 • **Fax**: (514) 739-2902 • **E-mail**: sales@cantherm.com

Website: www.cantherm.com | Division of Microtherm

<sup>\*</sup> B Value (25/50C) error is ±1% for components with rated resistance tolerance of ±1% and ±2% for all others. Notice:

<sup>\*</sup> The two ends of the lead wire cannot endure too big pull because of the small size and soldered spot in series of MF52.

<sup>\*</sup> Solder at least 5mm from the bottom of wire.