

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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MF52





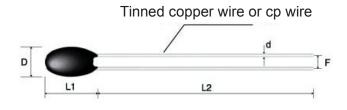
Pearl-Shaped Precision NTC Thermistor for Temperature Measurement

MF52



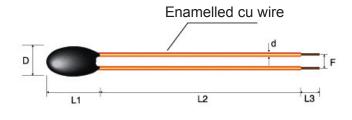
Pearl-Shaped Precision NTC Thermistor for Temperature Measurement. The MF52 series is ethoxyline resin coated. The small size is made possible by new materials and manufacturing methods which provide the benefit of close tolerances and fast response. MF52 thermistors are available with 5 lead styles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

Dimensions (mm) -



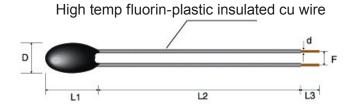
A: Tin. Ag. nickel plated cu wire

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

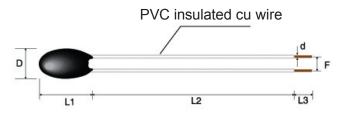


Application

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

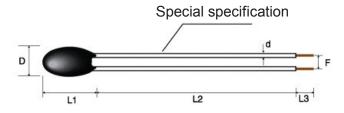
Characteristics

- 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



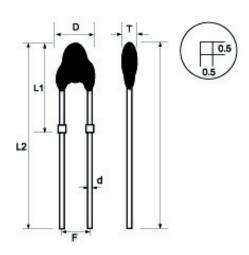
D: PVC wire

Code	D max	L ₁ max	L ₂ min	L ₃ +/- 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

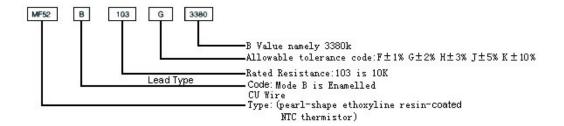
Code	D max	L ₁ max	' -		d +/- 0.05
E1	Customer Specified	Customer Specified	Customer Specified	5	Customer Specified
E2	Customer Specified	Customer Specified	Customer Specified	5	Customer Specified



F: Tinned lead-frame style

Code	D	L ₁	L ₂	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 ₂₅ (KΩ)	B Value (25/50°C) (K)	Rated Power(mw)	Dissi. Coef. (mW/ °C)	Thermal time Constant(S)	Operating Temp.(°C)
MF520003100 MF520003270 MF520003470 MF520003600 MF520003950 MF520004050 MF520004150 MF520004300 MF520004300 MF520004300 MF520004500	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:





^{*} Specifications are subject to change without notice.



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Website: www.cantherm.com | Division of Microtherm

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

^{*} The two ends of the lead wire cannot endure too big pull because of the small size and soldered spot in series of MF52.

^{*} Solder at least 5mm from the bottom of wire.