

MF52 Series

NTC Thermistor

MF52 Series bead temperature thermistor is made of new materials, new technology of production of small type epoxy resin coating of NTC thermistor, has the advantages of high precision and fast response. It is subdivided into various subseries according to the difference in lead wire configuration.



Typical Applications Air conditioning equipment Heating equipment Medical equipment Temperature control instruments Electronic gifts Electronic temperature and humidity meter Auto temperature measurement Tin plating steel wire radial type epoxy resin encapsulation Wide range of resistance High precision Small size and fast response High stability

Technical Data

Electronic calendar

Rechargeable batteries and charger

Item	Temperature
Temperature range	-55°C to +125°C
Response time	Water (0.4m/s) T0.63 ≤ 7s
Dissipation factor	≥ 2mW/°C
Long-term stability	Drift ≤ 3% after 1000h heat or cold store (80°C / -30°C)
Dielectric Strength	1500VAC
Insulation Resistance	≥200MΩ 500VDC

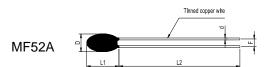


MF52 Series

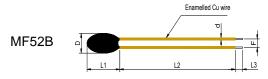
NTC Thermistor

Dimensions (mm)

Part No. Figure Dimensions

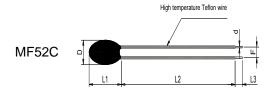


A. Tin. Plated copper wire									
	Code	D _{MAX}	L1 _{MAX}	L2 _{MIN}	d ± 0.05	F ± 0.05			
	A1	2	3	25	0.3	2			
	A2	3	4	25	0.45	2			



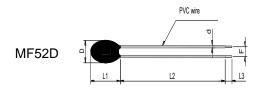
B. Enameled wire

Code	\mathbf{D}_{MAX}	L1 _{MAX}	L2 _{MIN}	L 3 ± 1	d ± 0.05	F ±0.05
B1	2	3	decided by user	5	0.2	2
B2	3	4	decided by user	5	0.3	2



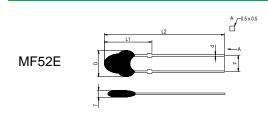
C. High temperature Teflon wire

Code	D _{MAX}	L1 _{MAX}	L2 _{MIN}	L 3 ±1	d± 0.05	F ± 0.05
C1	3	5	decided by user	5	0.25	2.0
C2	4	5.5	decided by user	5	0.32	2.5



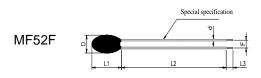
D. PVC wire

Code	D _{MAX}	L1 _{MAX}	L2 _{MIN}	L 3 ±1	d± 0.05	F ± 0.05
D1	3	5	decided by user	5	0.26	2.0
D2	4	5.5	decided by user	5	0.26	2.5



E. Tinned steel wire

Code	D_{MAX}	L1 _{MAX}	L ₂ ± 1.5	d_{MAX}	F ± 0.5	T_{MAX}
Е	3.8	9.5	17	5.0	2.5	3.5



F. Customer required

Code	D _{MAX}	L1 _{MAX}	L2 _{MIN}	L 3 ±1	D1± 0.05	F ± 0.05
F1	decided bv user	decided by user	decided by user	5	decided by user	2.5



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Ordering code

XXXX

(1) Epoxy coating thermistor MF52 series

(2) Lead wire style code:

Model A: Tin. Plated copper wire

Model B: Enameled wire

Model C: High temperature Teflon wire

Model D: PVC insulation wire Model E: Tinned steel wire Model F: Customer require (3) Resistance value at 25°C

(4) Resistance tolerance code: (F: ±1%, G: ±2%, H: ±3%, J: ±5%, K: ±10%)

(5) Beta value

Electrical characteristics

Part No.	Rated Resistance R ₂₅	B Value (25/50°C)	Rated Power (mW)	Disst. Coef. (mW/°C)	Themal time Constant (S)	Operating Temp. (°C)
MF520003100	0.1 ~ 20	3100				
MF52□□□3270	0.2 ~ 20	3270				
MF52□□□3380	0.5 ~ 50	3380				
MF52□□□3470	0.5 ~ 50	3470			≤7 In Still Air	-55∼+125°C
MF52□□□3600	1 ~ 100	3600				
MF52□□□3950	5~100	3950	≤50	≥2.0 In Still Air		
MF52□□□4000	5~100	4000				
MF52□□□4050	5~200	4050				
MF52□□□4150	10 ~ 250	4150				
MF52□□□4300	20~500	4300				
MF52□□□4500	20~500	4500				

Notes:

- The 1^{st} \square fills with code of dimension. 1.
- The $2^{nd} \square$ fills with rated resistance.
- The $\mathbf{3}^{\text{rd}} \ \square$ fills with its precision symbol. 3.
- B value (25/50°C) tolerance: ±1%.
- Default resistance tolerance: ±1%. We will be able to supply products according to client's demands.