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 sub-series 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
- Electronic calendar
- Rechargeable batteries and charger

Features

- Tin plating steel wire radial type epoxy resin encapsulation
- Wide range of resistance
- High precision
- Small size and fast response
- High stability

Technical Data

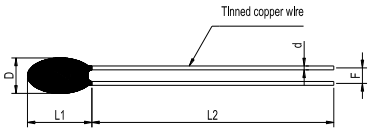
Item	Temperature
Temperature range	-55°C to +125°C
Response time	Water (0.4m/s) T0.63 ≤ 7s
Dissipation factor	≥ 2mW/°C
Long-term stability	Drift ≤ 3% after 1000h heat or cold store (80°C / -30°C)
Dielectric Strength	1500VAC
Insulation Resistance	≥200MΩ 500VDC

Dimensions (mm)

Part No.	Figure	Dimensions

A. Tin. Plated copper wire

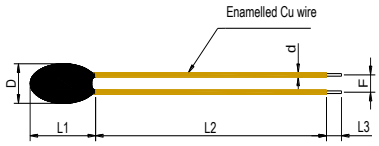
MF52A



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

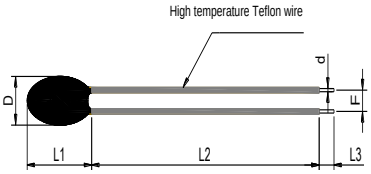
MF52B



Code	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

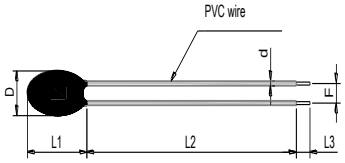
MF52C



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

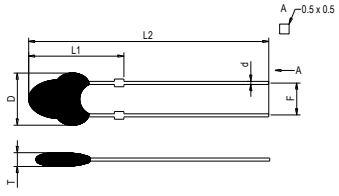
MF52D



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

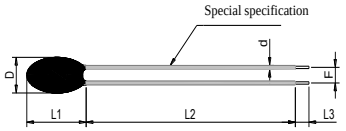
MF52E



Code	D_{MAX}	$L1_{MAX}$	L_2 ± 1.5	d_{MAX}	F ± 0.5	T_{MAX}
E	3.8	9.5	17	5.0	2.5	3.5

F. Customer required

MF52F



Code	D_{MAX}	$L1_{MAX}$	$L2_{MIN}$	L 3 ±1	D1± 0.05	F ± 0.05
F1	decided by user	decided by user	decided by user	5	decided by user	2.5

Ordering code

MF52	A	XXX	X	XXXX
(1)	(2)	(3)	(4)	(5)

(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)
MF52□□□3100	0.1 ~ 20	3100	≤50	≥2.0 In Still Air	≤7 In Still Air	-55 ~ +125°C
MF52□□□3270	0.2 ~ 20	3270				
MF52□□□3380	0.5 ~ 50	3380				
MF52□□□3470	0.5 ~ 50	3470				
MF52□□□3600	1 ~ 100	3600				
MF52□□□3950	5 ~ 100	3950				
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:

1. The 1st □ fills with code of dimension.
2. The 2nd □ fills with rated resistance.
3. The 3rd □ fills with its precision symbol.
4. B value (25/50°C) tolerance: ±1%.
5. Default resistance tolerance: ±1%.
6. We will be able to supply products according to client's demands.