

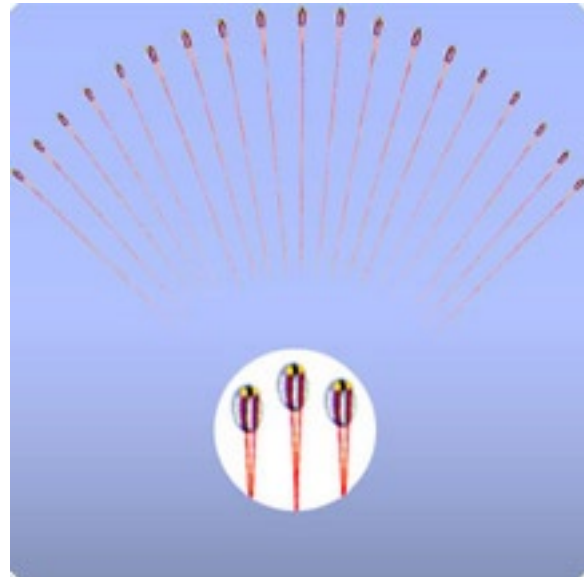


# CANTHERM

Supplying high-quality bimetal and thermal sensor products.

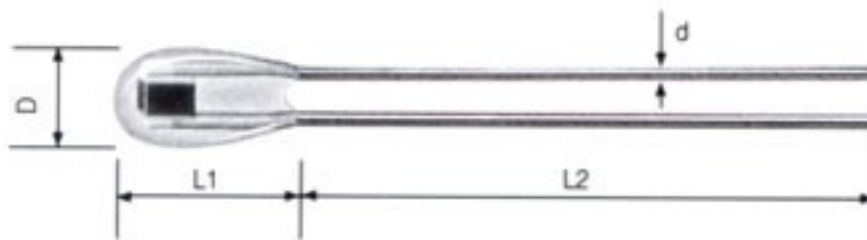
## MF51 Precision Glass Encapsulated NTC Thermistor for Temperature Measurement

The MF51 NTC thermistor is a small chip thermistor encased in glass with bare radial copper leads. The chip is made from a new material using new techniques which provide benefits such as high precision, fast response, reliable stability, no aging effect and improved moisture resistance.



### Applications

It can be used in applications such as refrigeration, HVAC, heating equipment, electronic thermostats, liquid level sensing, automotive electronics, electronic dashboards, etc.



### Dimensions(mm)

Part No.	D max	L <sub>1</sub> max	L <sub>2</sub> min	d +/- 0.05
MF51-A	2.5	4	60	0.3
MF51-B	1.5	3	60	0.2
MF51-C	0.9	2	60	0.15



**CANTHERM**

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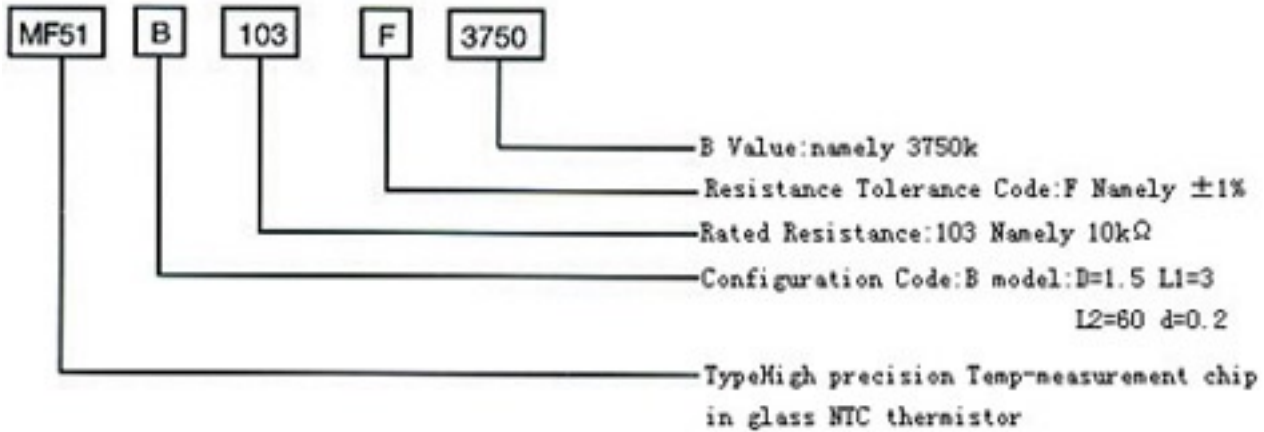
2008/Feb



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## Specification



## Physical Characteristics

Model	Dissi. Coef (mW/°C)	Thermal Time Constant (S)		MW
	In still air	In still air	In stirred oil	
MF51-A	1.2 ~ 1.3	10 ~ 11	0.9 ~ 1.1	$\leq 50$
MF51-B	0.7 ~ 0.8	4 ~ 5	0.3 ~ 0.4	$\leq 35$
MF51-C	0.4 ~ 0.5	2 ~ 3	0.18 ~ 0.24	$\leq 15$

Model	Rated Resistance R 25		B Value (25/80°C)		Operating Temp (°C)
	K $\Omega$	Tolerance	K	Tolerance	
MF51□□□3450	2 ~ 10	F = $\pm 1\%$ G = $\pm 2\%$ H = $\pm 3\%$ J = $\pm 5\%$	3450	$\pm 0.5\%$ $\pm 1\%$ $\pm 2\%$	-20 ~ 250
MF51□□□3750	8 ~ 10		3750		
MF51□□□3950	10 ~ 50		3950		
MF51□□□4150	50 ~ 100		4150		
MF51□□□4200	100 ~ 350		4200		
MF51□□□4350	870 ~ 980		4350		
MF51□□□4450	1000 ~ 1500		4450		

Remark:

- The first pane holds the dimensional code.
- The second pane shows the rated resistance at 25C (R25).
- The third pane shows the tolerance code of rated resistance.
- The fourth pane shows the Beta value (B25/80C)



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