



MF57 NTC Thermistor Automotive Water Temperature Sensor Water Temperature Sheet Round Ring Flat Sheet

Our Product Introduction

Basic Information

- Place of Origin: Dong Guan China
- Brand Name: lin kun
- Certification: ROHS,UL
- Model Number: NTC thermistor
- Minimum Order Quantity: 5000 PCS
- Price: 0.045 USD/ PCS
- Packaging Details: Bulk,500pcs per polybag
- Delivery Time: 7 workdays
- Payment Terms: T/T
- Supply Ability: 20,000,000PCS per week

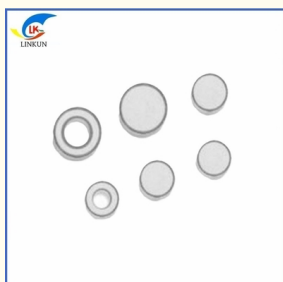


Product Specification

- Series: MF57
- Sensor Type: Thermistor
- Temperature Range: -40~+125C
- Accuracy: $\pm 3\%$
- Output Type: Analog Output
- Operating Temperature: 40 (°C)
- Mounting Type: Assembly
- Package/housing: Silver Plating
- Material: Ceramic
- Minimum Packing Number: Contact Customer Service
- Application Area: Household Appliances
- Article Number: MF57 Disc Thermistor
- Applicable Products: Environmental Measurement
- Highlight: **Automotive Water Temperature Sensor, Round Ring Flat Sheet NTC Thermistor, MF57 NTC Thermistor**



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Product Description

Disc NTC Thermistor MF57 For Automotive Engine Coolant Water Tank Temperature Sensor

I Application Of The Disc NTC Thermistor MF57

It is mainly applied as temperature-sensing component used in order-spot temperature measuring in the cooling system of automobile, combustion engine, huge electric power engine, oil transformer and so on, also be capable applied in temperature measurement in other conditions.

- 1, Rechargeable batteries and CPU.
- 2, LCD, Crystal oscillator
- 3, Temperature compensation
- 4, Temperature sensing for various types of circuits.

II Characteristics Of The Disc NTC Thermistor MF57

Small tolerance range for resistance and B value, good coherence and interchange, it can match all kinds of auto meter no matter domestic brand car or overseas brand car. MF57 Series thermistor used for automotive electronics (diesel locomotive, large motor, oil-immersed transformer) of the cooling system for fixed point temperature sensing element, temperature measurement can also be applied to other places.

III Dimension Of The Disc NTC Thermistor MF57 (mm)



IV Specification Of The Disc NTC Thermistor MF57

Part number	Rated Resistance R25		B value		Rated Power (W)	Thermal time constant (sec)	Dissi. Coef. (mW/°C)	Operating Temp. (°C)
	Range (Ω)	Tolerance ()	Rated value (K)	Tolerance ()				
MF57A	0.22K~10K	±1	2700~4700 (25/50°C)	±1	0.3	≤60	6~13	-40~+125
		±3		±3	0.4			
		±5		±5	0.5			
MF57B	0.4K~10K	±1 ±10 ±20	3600~4500 (25/85°C)	±1 ±2 ±3	0.2	≤50	≥3.5	
MF57C	0.4K~2K	±5 ±10 ±20	2400~3000 (25/50°C)	±5				

Model	Rated Resistance R25		B Value (25/50°C)		Rated Power (W)	Measuring Power (mW)	Thermal time Constant (S)	Dissi. Coef. (mW/°C)	Operating Temp (°C)
	Range (Ω)	Tolerance	Value (Ω)	Tolerance					
MF57 2700	220-630	±1% ±3% ±5%	2700	±1% ±3% ±5%	0.3 0.5	≤0.5	≤60	6-13	-55-+125
MF57 3000	270-5.1K		3000						
MF57 3300	270-5.1K		3300						
MF57 3600	270-5.1K		3600						
MF57 3900	270-5.1K		3900						
MF57 4100	330-6.8K		4100						
MF57 4300	330-6.8K		4300						
MF57 4700	330-10K		4700						

Remarks: Custom design for different RT curve and mounting configuration available

VI DESIGN Of The Disc NTC Thermistor MF57

Choice of the resistances If the application is to measure the temperature around a defined point, a unique nominal resistance can be chosen (for example, among standard values of the ND range products presented on pages 20 to 24).

When it is required to measure the temperature over selected ranges T1 –T2 , T2 –T3 , ..., the corresponding resistance R1 , R2 , R3 , ..., must be such that they can be located on the R (T) characteristic of an existing NTC material (for example among standard materials whose R (T) are displayed on pages 29 to 33).

The resistances must also be compatible with the resistivity of the material and the dimensions of the thermistor.



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