Specification

CWF □□□□ – 103 J 3380

① ② ③ ④ ⑤

① NTC Temp sensor
② Package Option
1- Dipped ethoxyline resin (ex. 1A)
2- Aluminum,copper, or stainless steel housing (ex. 2A)
3- Plastic body (ex. 3AA)
4- Sheet metal attachment fixtures (ex. 4B)
5- Special probes (ex. 5B)
③ The Rated Resistance at 25ºC
Example:103＝10×103＝10000Ω=10KΩ
④ The Precision Symbol of Rated Resistance
F：±1% G：±2% H：±3% J：±5%
⑤ B value（25/50℃）B value example: 3380K

Technical Specifications

Part No.	Rated Resistance R25		B Value (25/50ºC)		Dissi.Coef. (mW/ºC)	Thermal time Constant (S)	Operating Temp. (ºC)
	Range	Allowable	(K)	Allowable			
CWF□□□3100	0.1-20	± 1 ± 2 ± 3 ± 5	3100	± 1 ± 2	≥ 2.2	≤ 70	-55 to 125
CWF□□□3270	0.2-20		3270				
CWF□□□3380	0.5-50		3380				
CWF□□□3470	0.5-50		3470				
CWF□□□3600	1-100		3600				
CWF□□□3950	5-100		3950				
CWF□□□4000	5-100		4000				
CWF□□□4050	5-200		4050				
CWF□□□4150	10-250		4150				
CWF□□□4300	20-1000		4300				
CWF□□□4500	10-1000		4500				

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2023/MAR CWF

CWF

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CWF Precision NTC Thermistor Probes for Temperature Measurement

CWF

The CWF series NTC Thermistors are supplied in 5 basic styles of enclosures designed to facilitate installation in a wide variety of applications. PVC leads are applied to a precision, high-reliability NTC thermistor, insulated with heat conductive water resistant materials and potted into any of a wide variety of probe bodies. CWF thermistors are also available with custom housings or custom lead lengths for remote sensing and temperature control in difficult conditions.

Also see the **Cantherm Thermistor Probe Brochure** for additional models.

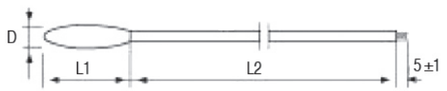
Applications

- Heating, ventilation & air conditioning
- Temperature regulation and measurement
- Automotive electronics
- Water heaters
- Household appliances such as refrigerators, water coolers, dishwashers and many others

Characteristics

- Wide variety of installation fixtures and probes are available to suit your needs.
- Small size and fast response (temperature coefficient of resistance can reach- (2~5%/°C)
- Long-term stability and reliability (yearly drift of ≤1%)
- Excellent tolerance and interchangeability (the accuracy of R and B value can be ±1%)
- Double layer packaging provides excellent insulation and high strength and impact resistance.
- Dissipation constant type 1 package ≥2.0mW/°C, type 2 package ≥4.0mW/°C
- Time constant of ≤15S to 70S

Dimensions (mm)

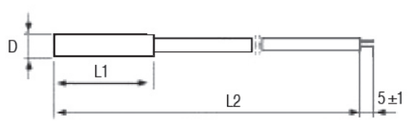


mm (Max)

Code	A	B	C	D
D Max	4	5	6	7
L1 Max	16	16	16	16
L2	Customer Specified			

CWF1 (Ethoxyline dipped)

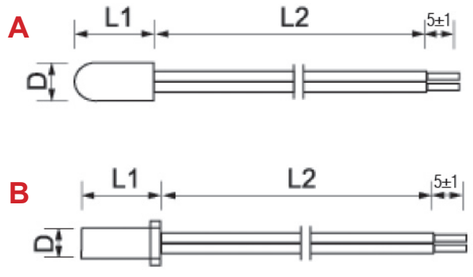
Characteristics: Moisture resistant, good insulation, high reliability, small time constant, quick responses.
Available Wire Types: AWG 24#, 26#, 28#,30#, PVC
Applications: Household air-conditioning, refrigeration and many others.



Code	A	B	C	D	E	F	G
D (±0.2 mm)	4	5	5	5	6	6	6
L1 (±0.2 mm)	20	20	25	30	20	25	30
L2	Customer Specified						

CWF2 (Packaged in aluminum, copper, or stainless steel probe body)

Characteristics: High resistance to thermal shock, moisture resistant, strong and secure structure, high dissipation coefficient, the test current can be higher than that of the ethoxyline resin-package.
Standard Wire Type: AWG 24#, 26#, 28#,30#, PVC
Applications: Refrigeration, air-conditioning, water heaters, drinking fountains, and more.

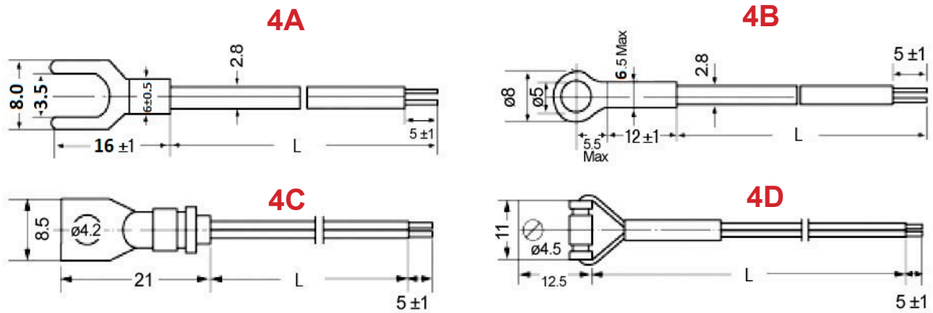


3A Code	A	B	C	D
D (±0.2 mm)	3.5	4	5	6
L1 (±0.2 mm)	15	15	15	20
L2	Customer Specified			

3B Code	A	B	C
D (±0.2 mm)	4	8	8
L1 (±0.2 mm)	10	35	50
L2	Customer Specified		

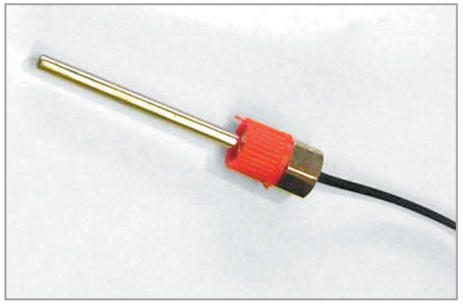
CWF3 (Plastic body)

Characteristics: Good dimensional tolerances, good heat resistance and moisture protection, high voltage resistance.
Available Wire Types: AWG 24#, 26#, 28#,30#, PVC
Applications: Air-conditioning, refrigeration, and more.



CWF4 (Sheet metal attachment fixtures)

Characteristics: Wide variety of fixtures, suitable for most applications.
Applications: Fan control, industrial temperature controllers, and more.



CWF5 (Custom probes)

Characteristics: Small time constant, fast response, flexible and secure.
Applications: Water heaters, electronic thermometers, and more.

* Also refer to the **Cantherm Custom NTC Thermistor Probe Brochure**.

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