





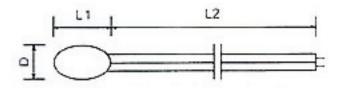
CWF Precision NTC Thermistor Probes for Temperature Measurement



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.

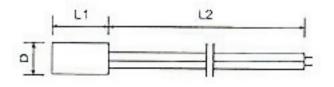
Dimensions (mm)



Code	Α	В	С	D
D	3	5	6	7
L1	5	10	15	15
L2	Customer Specified			

CWF1 (Ethoxyline dipped)

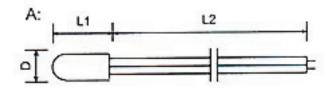
Characteristics: Moisture resistant, good insulation, high reliability, small time constant, quick responses. **Applications:** Household air-conditioning, refrigeration and many others.



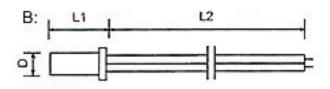
Code	Α	В	C	D	Е	F	G
D	3	5	5	5	6	6	6
L1	20	20	25	30	20	25	30
L2	Customer Specified						

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. **Applications:** All kinds of refrigeration, air-conditioning, water heaters, drinking fountains, and more.



Code	Α	ВС		D
D	3	3.5	4	5
L1	10	15	15	15
L2	Customer Specified			



Code	Α	В		
D	8	8		
L1	35	50		
L2	Customer Specified			

CWF3 (Plastic body)

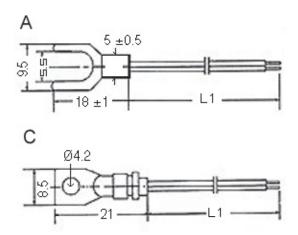
Characteristics: Good dimensional tolerances, good heat resistance and moisture protection, high voltage resistance. **Applications:** All kinds of Air-conditioning, refrigeration, and more.

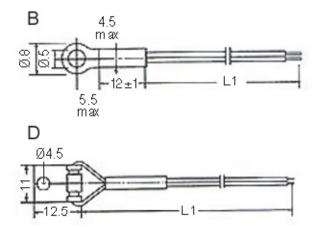
Applications

- · Heating, Ventilation & Air Conditioning
- Temperature Regulation and Measurement
- Automotive Electronics
- Water Heaters
- Household Appliances such as refrigerators, water coolers, dishwashers and many others

Characteristics

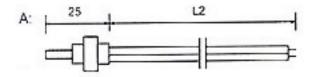
- Wide variety of installation fixtures and probes are available to suit your needs.
- Small size and fast response (temperature coefficient of resistance can reach- (2~5%/°C)
- Long-term Stability and Reliability (yearly drift of ≤1%)
- Excellent Tolerance and Interchangeability (the accuracy of R and 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

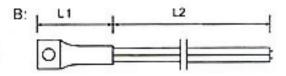




CWF4 (Sheet metal attachment fixtures)

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





CWF5 (Special 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**.

Specification

CWF		- <u>103</u>	<u>J</u>	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. 2B)
 - 3- Plastic body (ex. 3AA)
 - 4- Sheet metal attachment fixtures (ex. 4B)
 - 5- Special probes (ex. 5B)
- ③ The Rated Resistance at 25°C Example:103=10×103=10000 Ω =10K Ω
- ④ The Precision Symbol of Rated Resistance F:±1% G:±2% H:±3% J:±5%
- ⑤ B value (25/50°C) B value example: 3380K

Technical Specifications

		esistance 25	B Value (25/50°C)		Dissi.Coef.	Thermal time Con-	Operating
Part No.	Range (KΩ)	Allowable Tolerance (%)	(K)	Allowable Tolerance (%)	(mW/°C)	stant (S)	Temp. (°C)
CWF[][][]3100 CWF[][][]3270 CWF[][][]3380 CWF[][][]3600 CWF[][][]3950 CWF[][][]4000 CWF[][][]4050 CWF[][][]4150 CWF[][][]4300	0.1-20 0.2-20 0.5-50 0.5-50 1-100 5-100 5-200 10-250 20-1000	± 1 ± 2 ± 3 ± 4	3100 3270 3380 3470 3600 3950 4000 4050 4150 4300	± 1 ± 2	To type 1 package ≥2.0 To type 2 package ≥4.0	To type 1 package ≤15 To type 2 package ≤70	-55 to 125
CWF[][][]4300 CWF[][][]4500	20-1000 10-1000		4300 4500				



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