

T H E R M O M E T R I C S
A C O M M I T M E N T T O E X C E L L E N C E

NTC Type JM

Thermometrics
Resin-Coated
Thermistor With
PVC Wires



Description

Glass-encapsulated thermistor housed in a resin tip which is bonded to 'figure of 8' PVC leadout wires.

Features

- Resistant to moisture ingress
- Withstands immersion in water at 176°F (80°C) for >1200 hours while powered with 7.5 VDC using a 10 kΩ resistor without deterioration
- Available using any device in the Thermometrics standard DK range
- Range of wire length is 9.84 in. to 196.84 in. (250 mm to 5000 mm) (dimension WL in diagram on page 2)
- Suitable for use in air conditioning evaporators to prevent inefficiency due to icing

Amphenol
Advanced Sensors

Type JM Specifications

Description

Glass-encapsulated thermistor housed in a resin tip which is bonded to zip PVC leadout wires.

Options

- Other resistance—temperature characteristics
- Other wire types

Data

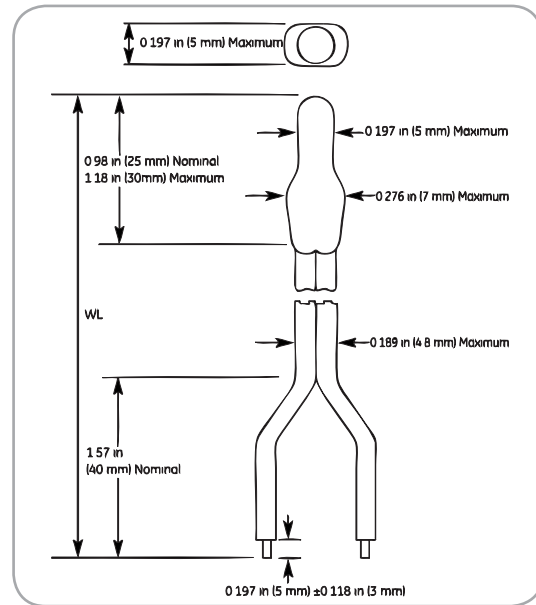
- **Temperature range:** -22°F to 221°F (-30°C to 105°C)
- **Insulation resistance:** >100 MΩ @ 500 VDC
- **Wire conductors:** 7 x 0.3 mm diameter (0.5 mm²)
- **Wire insulation:** Automotive grade PVC
- **Resistance—temperature characteristics:** Refer to DK data sheet
- **The following part is also available:**
 - **Product code:** JMF942R2L251
 - **R25:** 9.4 KΩ ± 2%
 - **B 25/85:** 3960 K ± 1%

Ordering Information

The code number to be ordered may be specified as follows:

Code	Type		
JM	Resin-Coated Thermistor With PVC Wires		
	Code	Type	
	F103R2	DKF103R2	See DK data sheet
		Code	Wire Length WL in mm
		L251	250 ± 10
		L501	500 ± 10
		L751	750 ± 20
		L102	1000 ± 20
		L152	1500 ± 25
		L202	2000 ± 25
		L252	2500 ± 50
		L302	3000 ± 50
		L352	3500 ± 50
		L402	4000 ± 50
		L452	4500 ± 50
		L502	5000 ± 50
JM	-	-	Typical model number

Resistance and wire length are specified by the product code: e.g., JMF103R2L251



NTC Type JM Dimensions

Resistance-Temperature Data For JMF942R2L251

Temperature °C	Nominal Resistance Ω	Resistance Tolerance ± %	Temperature Tolerance ± °C
-30	163638	4.96	0.80
-25	120775	4.64	0.78
-20	90041	4.33	0.75
-15	67775	4.04	0.72
-10	51484	3.75	0.69
-5	39452	3.47	0.66
0	30485	3.21	0.63
5	23745	2.95	0.60
10	18636	2.70	0.57
15	14733	2.46	0.53
20	11729	2.23	0.50
25	9400	2.00	0.46
30	7582	2.22	0.52
35	6153	2.43	0.59
40	5022	2.64	0.66
45	4123	2.84	0.73
50	3403	3.04	0.80
55	2823	3.23	0.88
60	2354	3.42	0.95
65	1972	3.61	1.03
70	1660	3.78	1.11
75	1403	3.96	1.19
80	1191	4.13	1.28
85	1016	4.30	1.36