



SINGLE INSULATED TPE OM PROBE Ø 5 X 20MM

SPECIFICATIONS

- IP 67 Rated
- TPE Overmolded probe with probe head dimensions of Ø 5 x 20mm
- 24 AWG Zipcord cable
- Ideal from ambient air sensing in building management applications, heater controls, air conditioning
- Available in a variety of connector types
- RoHS Compliant

This assembly consists of a NTC thermistor soldered to a single insulated TPE extension cable. The sensor and the extension cable are moulded together as one hot vulcanised unit to give a high degree of protection against water/moisture ingress.

FEATURES

- 24AWG Zipcord TPE cable
- IP 67 Rated
- Insulation Resistance 100MΩ @ 500VDC
- Available in a variety of connector types
- Customized tolerances and resistances available on request
- Temperature range -35°C to +105°C

APPLICATIONS

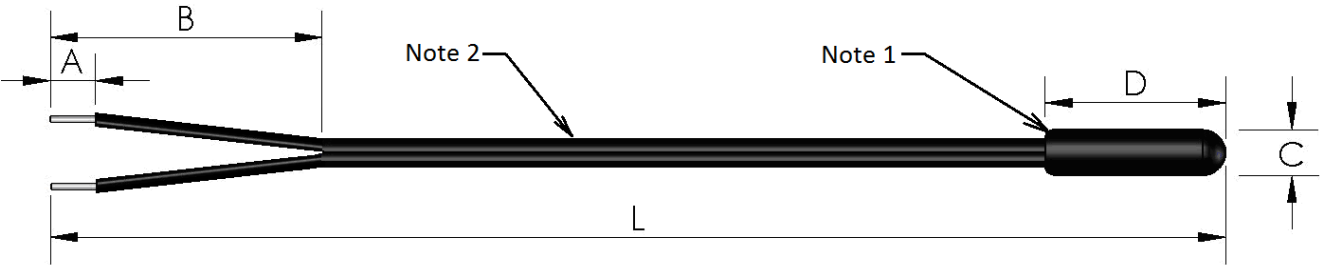
- Building Management Applications
- Heater Control
- Air Conditioning



PERFORMANCE SPECS

Parameters	Units	Value
Nominal Resistance at +25°C	Ohms	10,000
Tolerance at +25°C	%	± 1
Beta Value 25/85	K	3435
Tolerance on Beta Value	%	± 1
Max power (probe in still air at +25°C)	mW	400
Time Response +25°C to 70°C. (63.2% Span)	Seconds	Approx. 15
Temperature range	°C	-35 to +105

MECHANICAL DETAILS



	Dimension			
	A	B	C	D
	5 ± 1mm	35 ± 3mm	Ø 5mm	20 ± 1mm
Note 1	NTC encapsulated using Black TPE over-mold material (Temp. Rating +125°C)			
Note 2	24AWG (7/32) Tin plated Zipcord cable with Black TPE jacket (Temp. Rating +125°C)			

Figure 1: TPE Overmoulded Probe Ø 5 x 20mm

RESISTANCE V TEMPERATURE TABLE

Temp °C	KOhms	Temp °C	KOhms	Temp °C	KOhms	Temp °C	KOhms
-35°C	144.30	0°C	27.27	36°C	6.70	71°C	2.16
-34°C	136.92	1°C	26.12	37°C	6.47	72°C	2.10
-33°C	129.96	2°C	25.03	38°C	6.25	73°C	2.04
-32°C	123.39	3°C	23.99	39°C	6.04	74°C	1.98
-31°C	117.19	4°C	23.00	40°C	5.83	75°C	1.93
-30°C	111.34	5°C	22.06	41°C	5.63	76°C	1.87
-29°C	105.81	6°C	21.16	42°C	5.44	77°C	1.82
-28°C	100.58	7°C	20.30	43°C	5.26	78°C	1.77
-27°C	95.64	8°C	19.48	44°C	5.08	79°C	1.72
-26°C	90.97	9°C	18.70	45°C	4.92	80°C	1.67
-25°C	86.55	10°C	17.95	46°C	4.75	81°C	1.62
-24°C	82.37	11°C	17.24	47°C	4.60	82°C	1.58
-23°C	78.42	12°C	16.56	48°C	4.45	83°C	1.53
-22°C	74.68	13°C	15.91	49°C	4.30	84°C	1.49
-21°C	71.13	14°C	15.29	50°C	4.16	85°C	1.45
-20°C	67.77	15°C	14.69	51°C	4.03	86°C	1.41
-19°C	64.59	16°C	14.12	52°C	3.90	87°C	1.37
-18°C	61.58	17°C	13.58	53°C	3.77	88°C	1.34
-17°C	58.72	18°C	13.06	54°C	3.66	89°C	1.30
-16°C	56.01	19°C	12.56	55°C	3.54	90°C	1.27
-15°C	53.44	20°C	12.09	56°C	3.43	91°C	1.23
-14°C	51.01	21°C	11.63	57°C	3.32	92°C	1.20
-13°C	48.69	22°C	11.20	58°C	3.22	93°C	1.17
-12°C	46.50	23°C	10.78	59°C	3.12	94°C	1.14
-11°C	44.41	24°C	10.38	60°C	3.02	95°C	1.11
-10°C	42.43	25°C	10.00	61°C	2.93	96°C	1.08
-9°C	40.55	26°C	9.63	62°C	2.84	97°C	1.05
-8°C	38.76	27°C	9.28	63°C	2.75	98°C	1.02
-7°C	37.06	28°C	8.95	64°C	2.67	99°C	1.00
-6°C	35.44	29°C	8.62	65°C	2.59	100°C	0.97
-5°C	33.91	30°C	8.31	66°C	2.51	101°C	0.95
-4°C	32.44	31°C	8.02	67°C	2.44	102°C	0.92
-3°C	31.05	32°C	7.73	68°C	2.37	103°C	0.90
-2°C	29.73	33°C	7.46	69°C	2.30	104°C	0.88
-1°C	28.47	34°C	7.20	70°C	2.23	105°C	0.86
		35°C	6.95				

ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ
10K3435STM010	TPE OM Probe Ø 5 x 20mm Length 1 meter	10,000	1,000*
10K3435STM020	TPE OM Probe Ø 5 x 20mm Length 2 meters	10,000	1,000*
10K3435STM030	TPE OM Probe Ø 5 x 20mm Length 3 meters	10,000	1,000*

* For quantities less than Minimum Order Quantity – contact distribution

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