

DESCRIPTION

NTC Thermistor encapsulated with special epoxy for moisture protection with non-insulated leaded wire.



SPECIFICATIONS

SL NO	PARAMETER	VALUE	UNIT
1	Resistance at 25°C	10	ΚΩ
2	Resistance Tolerance	±10	%
3	Beta Value (25/85) °C	3977	К
4	Power Dissipation Constant	2.2	mW
4	Beta Tolerance	3	%
5	Insulation Resistance	100	MΩ
6	Isolation Strength	1500	Vac
7	Response Time	8	Sec
8	Lead Length	25	mm
9	Storage Temperature	-30 to 105	°C
10	Operating temperature	-40 to +125	°C

FEATURES

- Easy mounting to PCB
- Provides fast response
- Smaller in size
- Cost effective sensor
- Complaint to RoHS Directive 2015/863/EU.

SOLDERING

- Soldering Temperature: 320°C Max.
- Soldering Duration: 6.0 Second Max.
- Preheat Temperature: 160°C for 3.0 Sec.

APPLICATIONS

- Consumer Appliances
- Power Electronics
- Automotive
- Industrial equipment
- Battery temperature

RELIABILITY SPECIFICATION

Description	Test Conditions	Characteristics Drift
Dry Heat Test	Elements are placed in an oven of temp. at 125°C± 5°C for 100 (+2, -0) hr. With 10K series resistor, input voltage:5V DC After test, the elements are stored in room temperature for one hour.	$\triangle R$ after test are less than ± 5%. $\triangle B$ after test are less than ± 2%.
Cold Test	Elements are placed in a Cold Chamber at $-40^{\circ}C \pm 5^{\circ}C$ for 100 (+2, -0) hr. After test the elements are stored in room temperature for one hour.	\triangle R after test are less than ± 5%. \triangle B after test are less than ± 2%.
Damp Heat Test	Elements are placed in a chamber of temp. at 60°C± 2°C and 90~95%RH for 100 (+2, -0) hr. After test the elements are stored in room temperature for one hour.	$\triangle R$ after test are less than ± 5%. $\triangle B$ after test are less than ± 2%.

RT CHART

т	R	Т	R	т	R	т	R	т	R
(°C)	(kΩ)	(°C)	(kΩ)	(°C)	(kΩ)	(°C)	(kΩ)	(°C)	(kΩ)
-40	333.562	-5	42.292	30	8.056	65	2.082	100	0.678
-35	241.072	0	32.640	35	6.530	70	1.751	105	0.587
-30	176.081	5	25.391	40	5.325	75	1.480	110	0.509
-25	129.925	10	19.902	45	4.367	80	1.256	115	0.444
-20	96.807	15	15.713	50	3.601	85	1.070	120	0.388
-15	72.809	20	12.493	55	2.985	90	0.916	125	0.340
-10	55.252	25	10.000	60	2.487	95	0.786		

CUSTOM DESIGN & SUPPORT

• Other resistance curve & tolerance are available on request

PACKING

- Bulk layer packing
 - 500 in poly bag

Consult Thermosen Technologies Pvt. Ltd. for custom product requirement

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