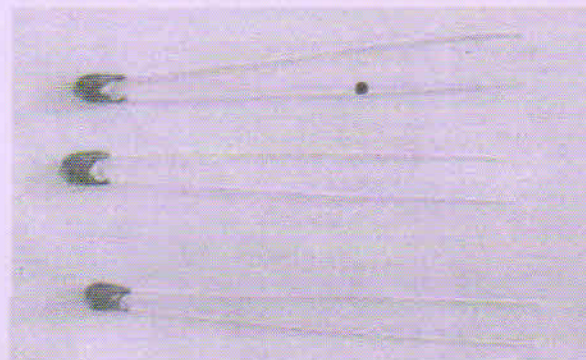


THERMISTOR AND SENSOR

NTC THERMISTOR – BEAD TYPE

FEATURES

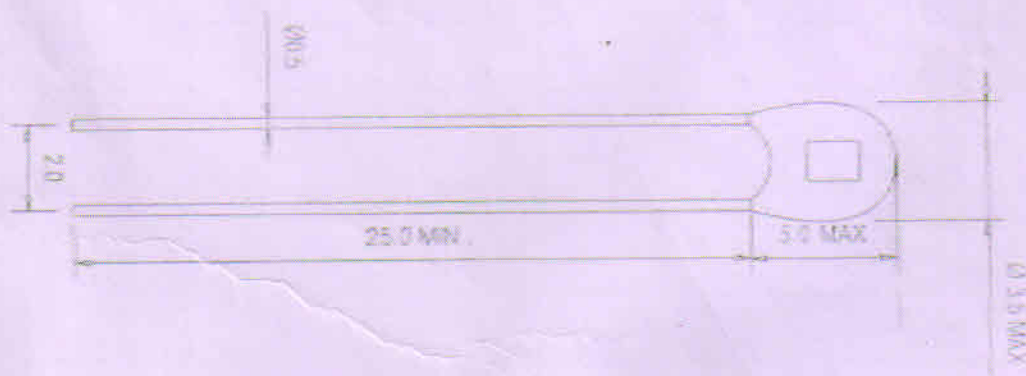
- Easy Mounting to PCB
- Small Size
- Fast Response
- Operating Temperature range from -40°C to 125°C



APPLICATIONS

Thermistor used for surface temperature sensing and control in :

- Power Electronics
- Heat Sink Temperature Control
- Electric Table Board
- Consumer Appliances
- Battery of Mobile telephone
- Industrial Equipment
- Automotive equipment



A. Electrical Specification :

1. Resistance @ 25°C : 10000 Ohm
2. Resistance @ 80°C : 1255.6 Ohm $\pm 5\%$
3. B- Value $25/85^{\circ}\text{C}$: 3977K $\pm 2\%$
4. Response time : Approx. 8.0 Seconds.
5. Power dissipation constant : 2.5mW/ $^{\circ}\text{K}$

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NO.199/1, 7TH MAIN, GB PALYA, OFF HOSUR ROAD, BANGALORE, KARNATAKA, INDIA.

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B. Operating temperature : -40°C to +125°C

C. Storage Temperature : -30°C to +105°C

D. Reliability

1. Endurance at Upper category : +125°C for 1000 Hours.
2. Rapid change of Temperature : With stand -40°C to +105°C silicon Oil, Each temperature 5 minutes for 20 cycles.
3. Over Temperature test : +125°C for 30 Minutes.

E. Resistance Temperature Chart :

Temp (°C)	Res (Ohm) Nom	Temp (°C)	Res (Ohm) Nom	Temp (°C)	Res (Ohm) Nom	Temp (°C)	Res (Ohm) Nom	Temp (°C)	Res (Ohm) Nom
-40.00	333562.5	-5.00	42292.2	30.00	8055.9	65.00	2081.8	100.00	678.1
-39.00	312316.0	-4.00	40130.7	31.00	7720.8	66.00	2010.2	101.00	658.5
-38.00	292550.8	-3.00	38092.0	32.00	7401.5	67.00	1941.5	102.00	639.7
-37.00	274155.3	-2.00	36168.7	33.00	7097.1	68.00	1875.5	103.00	621.4
-36.00	257027.2	-1.00	34353.5	34.00	6806.8	69.00	1812.0	104.00	603.8
-35.00	241072.0	0.00	32639.9	35.00	6530.0	70.00	1751.1	105.00	586.8
-34.00	226203.0	1.00	31021.5	36.00	6265.9	71.00	1692.4	106.00	570.3
-33.00	212340.2	2.00	29492.6	37.00	6013.9	72.00	1636.1	107.00	554.3
-32.00	199410.1	3.00	28047.8	38.00	5773.4	73.00	1581.9	108.00	538.9
-31.00	187344.8	4.00	26682.0	39.00	5543.9	74.00	1529.7	109.00	524.0
-30.00	176081.5	5.00	25390.5	40.00	5324.6	75.00	1479.6	110.00	509.5
-29.00	165562.7	6.00	24168.8	41.00	5115.2	76.00	1431.3	111.00	495.5
-28.00	155735.1	7.00	23012.9	42.00	4915.1	77.00	1384.8	112.00	482.0
-27.00	146549.4	8.00	21918.7	43.00	4724.0	78.00	1340.1	113.00	468.9
-26.00	137960.1	9.00	20882.8	44.00	4541.2	79.00	1297.1	114.00	456.2
-25.00	129925.4	10.00	19901.7	45.00	4366.5	80.00	1255.6	115.00	443.9
-24.00	122406.3	11.00	18972.1	46.00	4199.5	81.00	1215.7	116.00	432.0
-23.00	115367.0	12.00	18091.3	47.00	4039.7	82.00	1177.2	117.00	420.5
-22.00	108774.1	13.00	17256.2	48.00	3886.8	83.00	1140.1	118.00	409.4
-21.00	102597.1	14.00	16464.4	49.00	3740.5	84.00	1104.4	119.00	398.5
-20.00	96807.3	15.00	15713.3	50.00	3600.5	85.00	1070.0	120.00	388.1
-19.00	91378.5	16.00	15000.7	51.00	3466.5	86.00	1036.8	121.00	377.9
-18.00	86286.1	17.00	14324.4	52.00	3338.1	87.00	1004.8	122.00	368.1
-17.00	81507.4	18.00	13682.3	53.00	3215.2	88.00	974.0	123.00	358.5
-16.00	77021.5	19.00	13072.5	54.00	3097.4	89.00	944.2	124.00	349.3
-15.00	72808.8	20.00	12493.3	55.00	2984.6	90.00	915.5	125.00	340.3
-14.00	68851.2	21.00	11943.0	56.00	2876.4	91.00	887.9		
-13.00	65131.9	22.00	11420.0	57.00	2772.8	92.00	861.1		
-12.00	61635.3	23.00	10922.7	58.00	2673.3	93.00	835.4		
-11.00	58346.8	24.00	10449.8	59.00	2578.0	94.00	810.5		
-10.00	55252.9	25.00	10000.0	60.00	2486.6	95.00	786.4		
-9.00	52341.0	26.00	9572.0	61.00	2398.8	96.00	763.2		
-8.00	49599.5	27.00	9164.7	62.00	2314.6	97.00	740.8		
-7.00	47017.5	28.00	8776.9	63.00	2233.8	98.00	719.2		
-6.00	44584.9	29.00	8407.6	64.00	2156.3	99.00	698.3		

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F. Soldering

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

G. Packing :

1. 200 in poly bag
2. 5000 in a bigger Poly bag
3. 50000 in a Corrugated Box.

H. Packing Label :

Each Poly bag and box will contain the same label given below.

THERMOSEN TECHNOLOGIES PVT. LTD.

PART NO : TNT-10052

Qty : Nos

Batch No :

Date :

Packed By :



MANUFACTURED IN INDIA

THERMOSEN TECHNOLOGIES PVT. LTD,

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