

TECHNOLOGIES PVT. LTD.

THERMOSEN

PROJECTION

TOLERANCES UNLESS SPECIFIED

SCALE

NTS

mm

SHEET

1 OF 1

PART NO.:

TNT-10087 L301-C

PART NAME:

THERMISTOR SENSOR ASSEMBLY

DRAWING NO:

PD-21090301

DATE

03.09.21

ISS

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DRN

BT

CHD

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APD

SJ

1. OPERATING TEMPERATURE RANGE : -30°C TO +105°C

2. STORAGE TEMPERATURE : -40°C TO 85°C

3. RESPONSE TIME : Max. 8.0 SEC. IN WATER

4. WATER IMMERSION TEST : WITHSTAND 1000 HOURS AT 30°C WATER WITH BIAS OF 7.5VDC, THROUGH 10 K Ω RESISTOR, RESISTANCE DRIFT TO LESS THAN 3%, AND INSULATION RESISTANCE TO BE GREATER THAN 100 M Ω AT 500VDC.

5. DAMP HEAT TEST : WITH STAND +40°C, 500 HOUR, RESISTANCE DRIFT TO BE LESS THAN 3%, AND INSULATION RESISTANCE TO BE GREATER THAN 100 M Ω AT 500VDC.

6. HIGH TEMPERATURE TEST : WITH STAND +100°C, 500 HOUR, RESISTANCE DRIFT TO BE LESS THAN 1%, AND INSULATION RESISTANCE TO BE GREATER THAN 100 M Ω AT 500VDC.

7. COLD TEMPERATURE TEST : WITH STAND -40°C, 500 HOUR, RESISTANCE DRIFT TO BE LESS THAN 1%, AND INSULATION RESISTANCE TO BE GREATER THAN 100 M Ω AT 500VDC.

8. THERMAL SHOCK TEST : WITH STAND -40°C TO +85°C IN SILICON OIL, EACH TEMPERATURE SOAK 5 MINUTES, 100 CYCLES, RESISTANCE DRIFT TO BE LESS THAN 2%, AND INSULATION RESISTANCE TO BE MORE THAN 100 M OHM AT 500VDC.

15.0 max

4.5 max

8.0 max

3.0 max

L300

15-20

1. RESISTANCE @ 25°C : 10K Ω \pm 1.0 %

2. β -VALUE (25/85)°C : 3977K \pm 1.0 %

3. INSULATION RESISTANCE : A MINIMUM OF 100 M Ω @ 500 VOLTS DC UNDER WATER

REVISIONS

Rev No / ZONE

Date

Change

ECN

MATERIAL PART LIST

Sl. No.	TST PART No.	MATERIAL DESCRIPTION
01	TNT-1001 L250	NTC THERMISTOR
02	RMR-1003-X	RESINE
03	RMR-10016 A,B & C	RESINE
04	RMW-1001 P-C	26AWG TWIN CABLE BLACK 105°300V UL2651
05	RMT-1040-T	TP2503J-3 TERMINAL
06	RMT-1040-C-WH	HP2502J-2Y CONNECTOR

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