

5	4	3	2	1	ECN
* INDICATES A FUNCTION / SAFETY / COMPLIANCE CHARACTERISTIC					
APPLICATION : AIR CONDITIONER					
Rev No / ZONE					
Date					
31.10.13					NEW PART ADDED IN THE PART LIST
21.11.13					NEW PART ADDED IN THE PART LIST

PART LIST

TRPL PART NO	LENGTH (L) (mm)
TNA-M 10004 L 281	280.0 ±10.0
TNA-M 10004 L 361	360.0 ±10.0
TNA-M 10004 L 501	500.0 ±10.0
TNA-M 10004 L 751	750.0 ±10.0
TNA-M 10004 L 102	1000.0 ±20.0
TNA-M 10004 L 202	2000.0 ±20.0
TNA-M 10004 L 502	5000.0 ±25.0
TNA-M 10004 L 103	10000.0 ±50.0

ELECTRICAL SPECIFICATIONS:

1. RESISTANCE @ 25°C : 10.0 KΩ ± 1 %
2. B-VALUE (25/85)°C : 3977 K ± 1.0 %
3. INSULATION RESISTANCE : A MINIMUM OF 100 MΩ @ 500 VOLTS DC UNDER WATER
4. VOLTAGE BREAKDOWN STRENGTH : 1500V AC FOR 3 SEC

NOTE

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

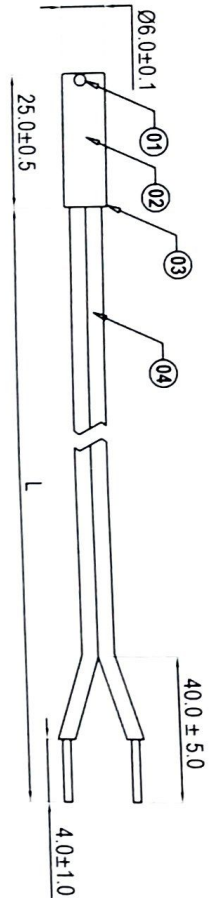
4. WATER IMMERSION TEST : WITHSTAND 1000 HOURS AT 30°C WATER WITH BIAS OF 7.5VDC, THROUGH 10 KΩ RESISTOR. RESISTANCE DRIFT TO LESS THAN 3% AND INSULATION RESISTANCE TO BE GREATER THAN 100 MΩ AT 500VDC.

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 MΩ 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 MΩ AT 500VDC.

7. 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 MΩ AT 500VDC.

PACKING:
1. BULK LAYER PACKING
Bunch 50 Nos each, 2 bunches in a polybag



CHARACTERISTICS
RESISTANCE VS TEMPERATURE

TEMP (°C)	RESISTANCE in OHM
-40.0	33363.0
-35.0	241072.0
-30.0	176081.0
-25.0	129925.0
-20.0	96807.0
-15.0	72809.0
-10.0	55253.0
-5.0	42292.0
0.0	32640.0
5.0	25360.0
10.0	19901.0
15.0	15713.0
20.0	12480.0
25.0	10000.0
30.0	8057.0
35.0	6532.0
40.0	5327.0
45.0	4364.0
50.0	3598.0
55.0	2980.0
60.0	2484.0
65.0	2080.0
70.0	1750.0
75.0	1476.0
80.0	1253.0
85.0	1070.0
90.0	918.5
95.0	787.7
100.0	678.7
105.0	586.3

MATERIAL PART LIST

04	RMV-1001-PA	ZZ AWG BLACK PVC INSULATED TWIN CABLE
03	RMV-1001-MF	HOUSING
02	RM R-1002-X	RESIN & HARDENER
01	TNT-1001-L230	NTC THERMISTOR
SL NO.	TST PART NO.	MATERIAL DESCRIPTION

PROJECTION	SCALE	UNITS	SHEET
NTS	mm	1 OF 1	

THERMOSEN

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PART NO.: TNA-M-10004 LXXX
PART NAME: THERMISTOR SENSOR ASSEMBLY
DRAWING NO: PD-10004

DATE	ISS	DRN	CHD	APD
21.11.13	3	..	..	..
31.10.13	2	..	..	..
28.10.11	1	..	..	..