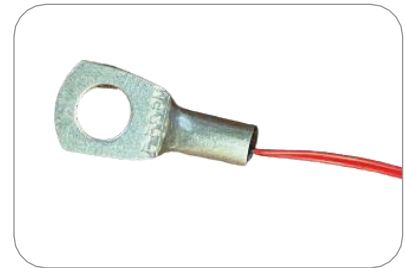


# RTS Series

## Ring Terminal Temperature Sensor



RTS Series of Ring Terminal Temperature sensor of an NTC chip thermistor mounted in An eyelet tag for surface temperature measurement.

### Features

- Suitable for surface temperature measurement
- Sensing element electrically isolated from tag
- Eyelet fits M3 to M6 screw size
- Range of wire lengths vary from 50 to 2000 mm
- NTC thermistor chip coated with epoxy
- Ring Terminal material tin plated copper
- Lead wire 28AWG XLPE Insulated tin plated copper
- RoHS, Reach, Prop65 Compliant

### Applications

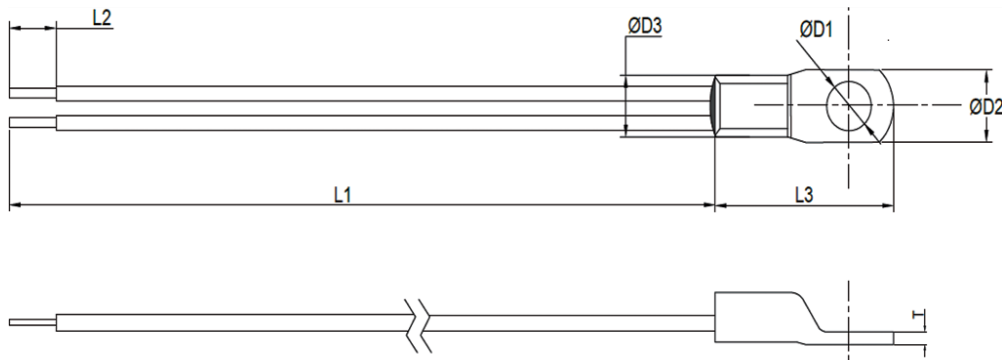
- EV/HEV Bus Bars
- Battery covers
- Thermal management
- Heat sinks
- Panel enclosures

Type RTS Specifications	Value	Units
Operating Temperature	-40 to 125	°C
Storage Temperature	-40 to 85	°C
Resistance at 25°C	5k to 100k	Ω
Resistance tolerance	±1, ±2, ±5	%
Beta <sub>25/85</sub>	3977 or 4252	K
Dissipation constant	1.5	mW/K
Time response	7	Sec.
Dielectric withstand between wires and lug	1,000	VDC

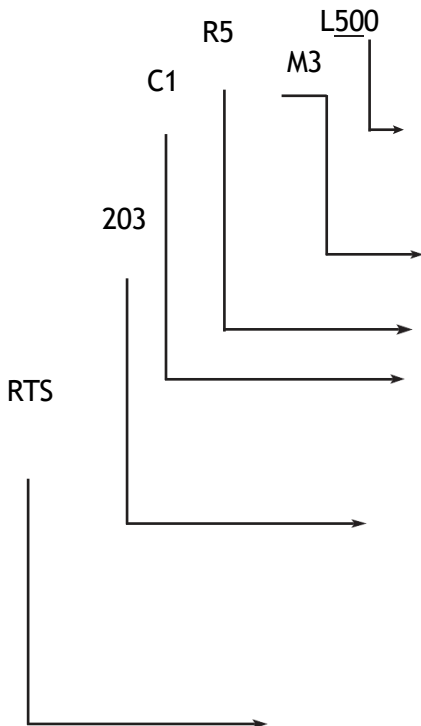
# RTS Series Ring Terminal Temperature Sensors

Mechanical Dimensions								
	D1	L1	L2	D3	T	L3	D2	Image
M3	3.2	See dimensions drawing	6±2	4.5	1	16	7	(1)
M4	4.2		6±2	5	1	20	8	(1)
M5	5.2		6±2	5	1	20	10	(1)
M6	6.4		6±2	5.6	1.2	25	14	(1) & (2)

## Dimensions



**Coding:** Eyelet size and wire length are specified by product code -



Example	Description	Standard Values	
L500	Wire length	L 550	50 ±5
		L201	200 ±5
		L501	500 ±5
		L102	1000 ±5
		L202	2000 ±5
M3	Eyelet Size	M3-M6	
R5	Tolerance	R1	1%
		R2	2%
		R5	5%
C1	Beta value	C1	3977K
		C4	3435K
		CG	4252K
203	R25	502	5000Ω
		103	10000Ω
		203	20000Ω
		503	50000Ω
		104	100000Ω
RTS	Sensor Type		

# RTS Series Specifications

SI No	Extl Part Number	Resistance at 25° C	Resistance Tolerance	B Value (25/85° C)	Dissipation Factor	Maximum Power at 25° C	Eyelet Type
1	RTS502RXMLXXX	5000.0Ω	±1.0%, ±2.0% & ±5.0%	3977K	1.5 mW/K	75 mW	M3/M4/ M6
2	RTS103RXMLXXX	10000.0 Ω	±1.0%, ±2.0% & ±5.0%	3977K	1.5 mW/K	75 mW	M3/M4/ M6
3	RTS103RXMLXXX	10000.0 Ω	±1.0%, ±2.0% & ±5.0%	3435K	1.5 mW/K	75 mW	M3/M4/ M6
4	RTS203RXMLXXX	20000.0 Ω	±1.0%, ±2.0% & ±5.0%	3977K	1.5 mW/K	75 mW	M3/M4/ M6
5	RTS203RXMLXXX	20000.0 Ω	±1.0%, ±2.0% & ±5.0%	4252K	1.5 mW/K	75 mW	M3/M4/ M6
6	RTS503RXMLXXX	50000.0 Ω	±1.0%, ±2.0% & ±5.0%	3977K	1.5 mW/K	75 mW	M3/M4/ M6
7	RTS503RXMLXXX	50000.0 Ω	±1.0%, ±2.0% & ±5.0%	4252K	1.5 mW/K	75 mW	M3/M4/ M6
8	RTS104RXMLXXX	100000.0 Ω	±1.0%, ±2.0% & ±5.0%	3977K	1.5 mW/K	75 mW	M3/M4/ M6
9	RTS104RXMLXXX	100000.0 Ω	±1.0%, ±2.0% & ±5.0%	4252K	1.5 mW/K	75 mW	M3/M4/ M6

## Note:

- Alternate resistance value, B value, tolerance available on customer request.
- Alternate wire type and wire length available on customer request.
- Alternate eyelet sizes available on customer request.

# Amphenol

## Advanced Sensors

[www.amphenol-sensors.com](http://www.amphenol-sensors.com)

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