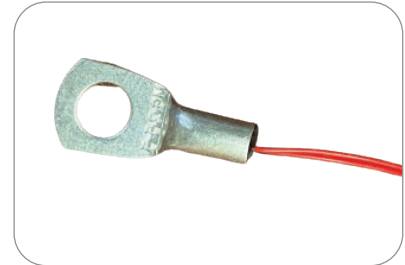


# RTS Series

## 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 configurations to fit M3, M3.5, M4, M5, M6 screw sizes
- 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

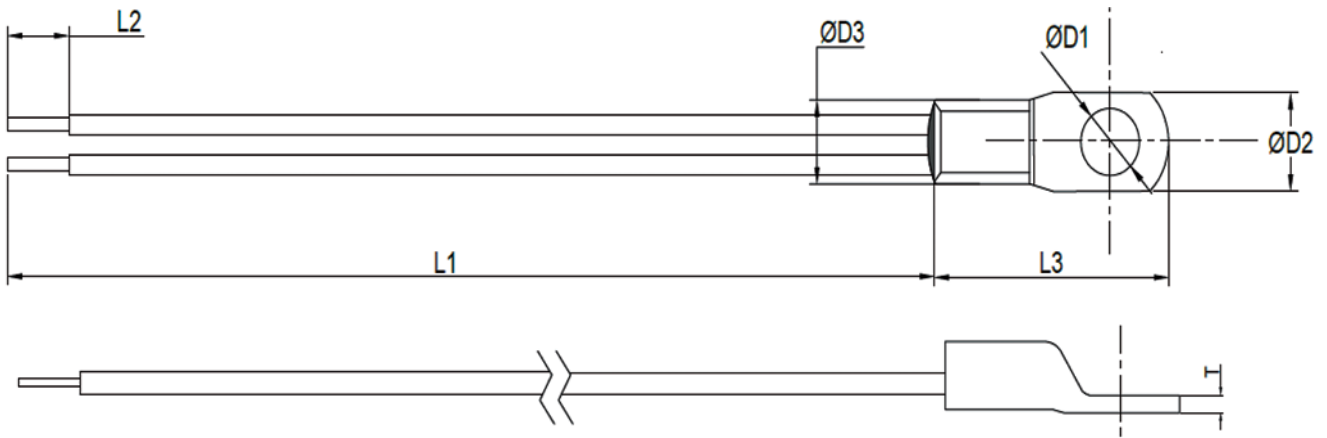
- EV/HEV Bus Bars
- Battery covers
- Thermal management
- Heat sinks
- Panel enclosures

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
Resistane tolerance	±1, ±2, ±5	%
Beta <sub>25/85</sub>	3977 or 4252	K
Dissapation constant	1.5	mW/K
Time response	7	Sec.
Dielctirc withsatand between wires and lug	1,000	VDC

# RTS Series Ring Terminal Temperature Sensors

Mechanical Dimensions							
	D1	L1	L2	D3	T	L3	D2
M3	3.2	See dimensions drawing	6±2	4.5	1	16	7.5
M3.5	3.7		6±2	4.5	1	18	7.5
M4	4.2		6±2	5	1	20	10
M5	5.2		6±2	5	1	20	10
M6	6.4		6±2	5.6	1.2	25	10.8

## Dimensions



**Coding:** Eyelet size and wire length are specified by product code – RTS203C1R5M3L501

RTS	203	C1	R5	M3	L500	Example	Description	Standard Values	
						L500	Wire Length	L 500	50±5
								L 550	50±5
								L 201	200±5
								L 501	500±5
								L 102	1000±50
								L 202	2000±5
				M3			Eyelet Size	M3, M35 ,M4 ,M5, 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	Exti Part Number	Resistance at 25°C	Resistance Tolerance	B Value (25/85° C)	Dissipation Factor	Maximum Power at 25°C	Eyelet Type
1	RTS502RXMXLXXX	5000.0Ω	±1.0%, ±2.0% & ±5.0%	3977K	1.5 mW/K	75 mW	M3/M4/ M6
2	RTS103RXMXLXXX	10000.0 Ω	±1.0%, ±2.0% & ±5.0%	3977K			
3	RTS103RXMXLXXX	10000.0 Ω	±1.0%, ±2.0% & ±5.0%	3435K			
4	RTS203RXMXLXXX	20000.0 Ω	±1.0%, ±2.0% & ±5.0%	3977K			
5	RTS203RXMXLXXX	20000.0 Ω	±1.0%, ±2.0% & ±5.0%	4252K			
6	RTS503RXMXLXXX	50000.0 Ω	±1.0%, ±2.0% & ±5.0%	3977K			
7	RTS503RXMXLXXX	50000.0 Ω	±1.0%, ±2.0% & ±5.0%	4252K			
8	RTS104RXMXLXXX	100000.0 Ω	±1.0%, ±2.0% & ±5.0%	3977K			
9	RTS104RXMXLXXX	100000.0 Ω	±1.0%, ±2.0% & ±5.0%	4252K			

## 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.

