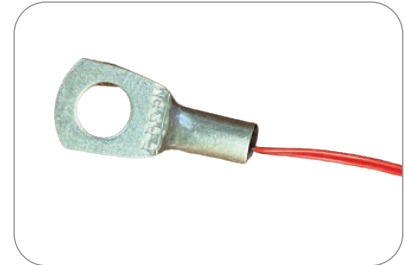


RTS Series

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

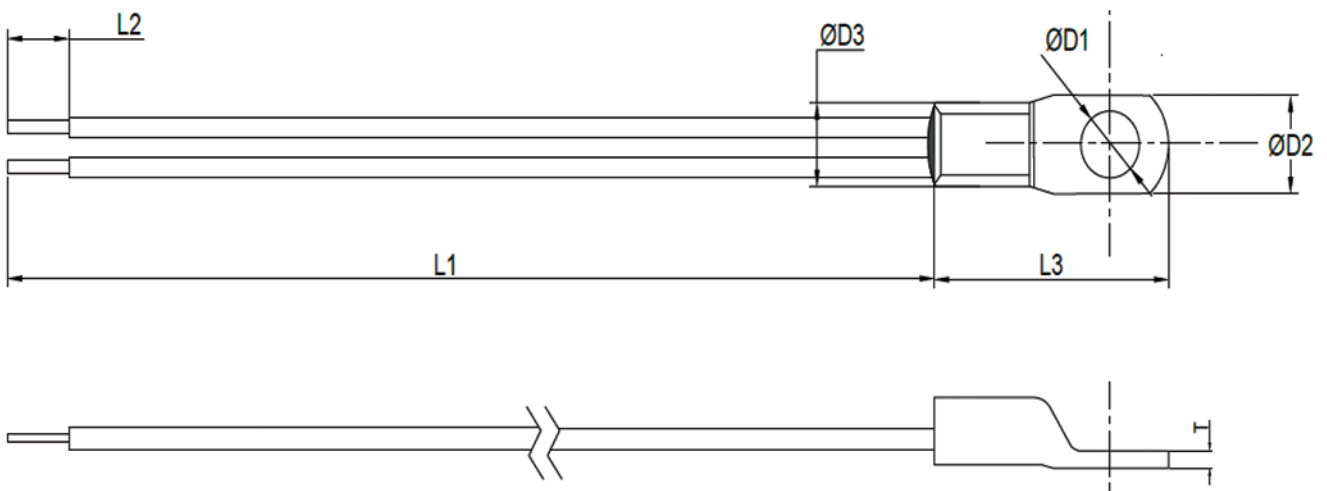
- EV/HEV Bus Bars
- Battery covers
- Thermal management
- Heat sinks
- Panel enclosures

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
Resistane tolerance	±1, ±2, ±5	%
Beta _{25/85}	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	Image
M3	3.2	See dimensions drawing	6±2	4.5	1	16	7.5	(1)
M4	4.2		6±2	5	1	20	10	(1)
M5	5.2		6±2	5	1	20	10	(1)
M6	6.4		6±2	5.6	1.2	25	10.8	(1)

Dimensions



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

RTS	203	C1	R5	M3	L500	Example	Description	Standard Values	
						L500	Wire Length	L 550	50±5
						L 201		200±5	
						L 501		500±5	
						L 102		1000±50	
						L 202		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	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.

