

Data Sheet for Precision Resistor

Shunt (bare metal)

Series MST



- Bare Metal - Resistor
- Current sensing resistor
- Power Rating up to 5 Watts @85°C
- Any Resistance from 0,005Ω..0,1Ω
- Resistance tolerances ±1%..±5%
- Low Inductance <10nH

Electrical Specification	MST		
	1	3	5
Resistance range	0.005Ω up to 0.1Ω		
Resistance tolerance	±1%, ±5%		
Power rating @85°C (0W @ +270°C)	1W	3W	5W
TCR-rate	±20ppm/°C		
Working temperature range (max.)	-55 °C up to +270 °C		

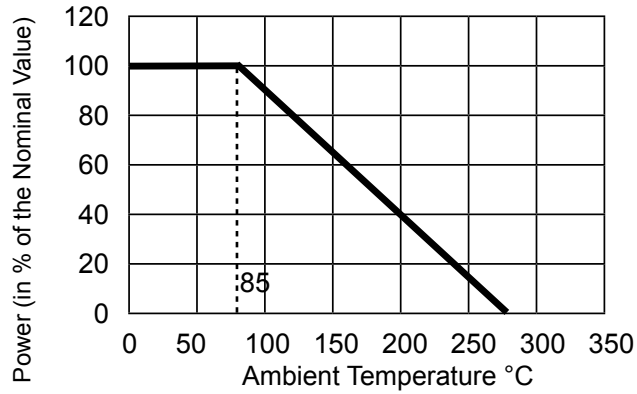
Mechanical Specification	
Resistance technology / material	Bare metal
Housing material	Bare metal
Connections	Axial cooper tinned

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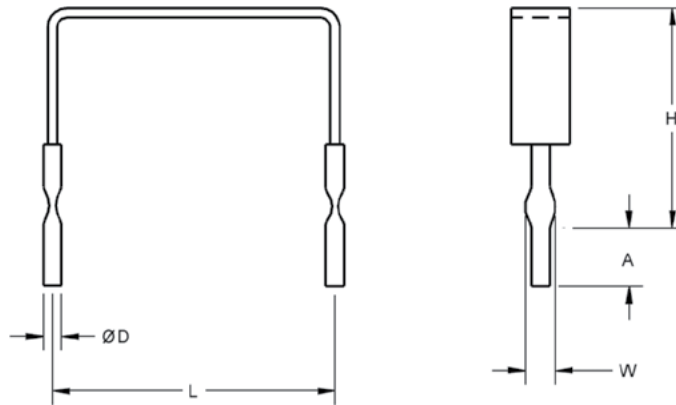
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Power Derating Curve



Technical Drawing



MST	L (+1.0 / -0.5)	H	ØD (±0.05)	W (±0.25 / -0.13)	A (±0.8)
1	11.4	5.1 ±2.5	1	1.7	3.2
3	15.2	25.4 max.	1	1.7	3.2
5	20.3	25.4 max.	1	1.7	3.2

Dimensions in mm

Packaging

MST

Bulk

250 Pieces / Bulk

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Order code

Description					
Selection: standard=black/bold , possible <i>options=grey/italic</i>					
Series:	MST				
Type / size:					
1 with strand distance 11,4 mm		1			
3 with strand distance 15,2 mm		2			
5 with strand distance 20,3 mm		3			
Resistance tolerance:					
±1%				W1%	
±5%				W5%	
Temperature coefficient:					
±20ppm/°C				TK20	
Resistance value:					
0,005Ω					R0,005
0,01Ω					R0,01
0,015Ω (only MST 3 and 5)					R0,015
0,02Ω					R0,02
0,025Ω					R0,025
0,03Ω					R0,03
0,04Ω (only MST 1 and 3)					R0,04
0,05Ω					R0,05
0,1Ω					R0,1

Order Example	Series	Type	Resistance tolerance	Temperature coefficient	Resistance value
Choice	MST	3	±1%	20ppm/°C	0.01Ω
Code	MST	3	W1%	TK20	R0.01