

SMD Resistors

type SL series

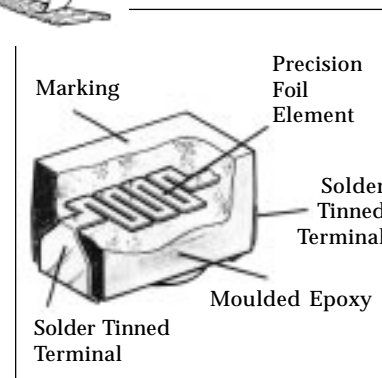
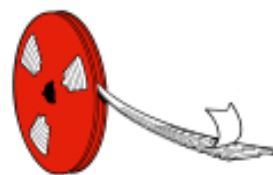
The SL is an innovative moulded package designed for current sensing. Two sizes are standard, 1 Watt and 2 Watt but 1/2 Watt and 3 Watt types can be offered to special order. Of particular interest is the possibility of low values with tight tolerances. The SL is a popular product as a current sensor in a range of battery powered equipment.

Packaging:
SP1 - 500 Pieces (7" Reel)
SP2 - 1000 Pieces (13" Reel)

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Sheet F0732

Key features

- low profile design
- available on tape (2 reel sizes)
- wide range R01 ohms to R09
- ideal for current sensing
- up to 2.0 watts power
- custom designs welcomed
- stable to 50ppm/°C
- excellent reliability



Specification

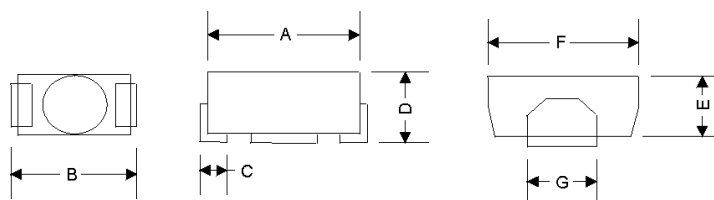
Electrical

Resistance Values:	SL1:	R01 - R075
Resistance Values:	SL2:	R005 - R09
Resistance Grid:		E192
Resistor Tolerances:		1%, 5%, 10%
Power Rating @ 25°C	SL1:	1 Watt
	SL2:	2 Watts
Power Derating:		To zero at 275°C
Maximum Operating Voltage:		$\sqrt{\text{Power} \times \text{Resistance}}$
Inductance:		< 7 NanoHenries
Temperature Coefficient:		< 50ppm/°C

Environmental

Dielectric Withstand:	1000V AC
Solderability:	95% Coverage
Flammability:	UL94V/ASTM needle flame

Dimensions



Part	SL1	SL2
A ± 0.13	6.10	11.05
B ± 0.25	6.48	12.14
C ± 0.25	0.89	2.54
D ± 0.38	2.84	5.33
E ± 0.13	2.72	5.08
F ± 0.13	3.81	5.84
G ± 0.25	1.27	2.54

How to Order

SL1	R005	J	T
Common Part	Resistance Value	Tolerance	Pack Style
SL1 - 1 Watt	0.005 ohm (5 milli ohms)	R005	J ± 5%
	0.01 ohm (10 milli ohms)	R01	E ± 3%
SL2 - 2 Watt	0.1 ohm (100 milli ohms)	R10	F ± 1%
			- - Loose
			T - 7" Reel
			R - 13" Reel

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