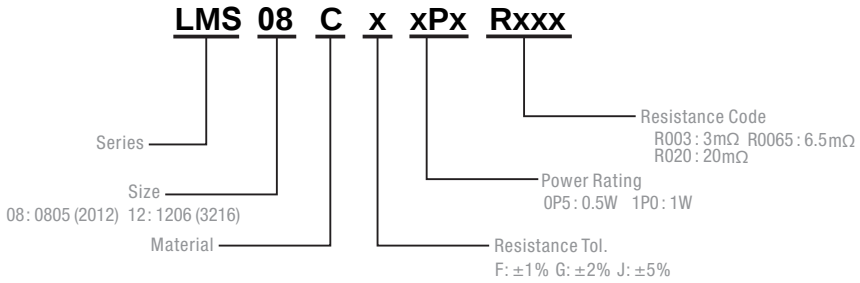
PROSEMI

Current Sensing Resistors
LMS Series

Description

- Proprietary processing technique produces extremely low resistance values
- Very low inductance
- Low thermal EMF
- Metallic Material

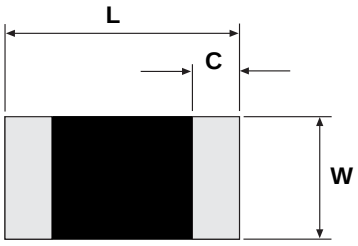
Part Numbering System



Specifications

Type	Size	Power (W)	Tolerance	Resistance Value (mΩ)	Operation Temperature Range	T.C.R
LMS08	0805	0.75	±1% ±2% ±5%	5 ~ 30 mΩ	-55 ~+155°C	±50ppm/°C
LMS12	1206	1.0		5 ~ 40 mΩ		

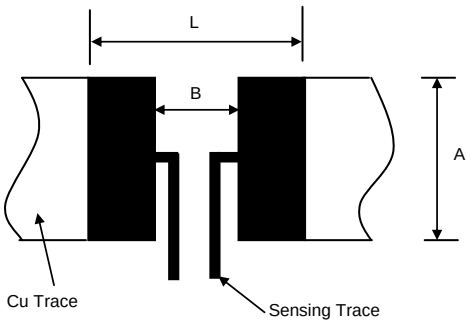
Dimensions



Unit: Millimeters

Type	L	W	C	d
LMS08	2.00±0.20	1.25±0.20	0.40±0.30	0.70±0.20
LMS12	3.20±0.20	1.60±0.20	0.50±0.30	0.70±0.20

Recommended land pattern



Unit: Millimeters

Series	Resistance (mΩ)	A	L	B
LMS08	5 ≦ R ＜ 10	1.4	3.2	0.8
	10 ≦ R≦ 30			1.2
LMS12	5 ≦ R ＜ 10	1.8	4.7	1.2
	10 ≦ R ＜ 20			1.8
	20 ≦ R ≦ 40			2.2

Packaging

Type	LMS08	LMS12
Pieces/Package	4,000	4,000

8mm wide tape on 178mm(7 inch) diameter reel -specification EIA Standard 481.

Performance

Test Items	Conditions of Test	Test Limits
Thermal shock	- 55 °C to + 150 °C, 300 cycles, 15 min at each extreme	± 1.0 %
Short time overload	5 x rated power for 5 s	± 0.5 %
Low temperature operation	- 55 °C,1000 h	± 0.5 %
High temperature exposure	1000h at + 170 °C	± 1.0 %
Moisture resistance	MIL-STD- 202, method 106, 0 % power, 7b not required	± 1.0 %
Load life	1000 h at 70 °C , 1.5 h "ON", 0.5 h "OFF"	± 1.0 %
Resistance to bonding exposure	260 °C for 10 s	± 0.5 %

Derating Curve