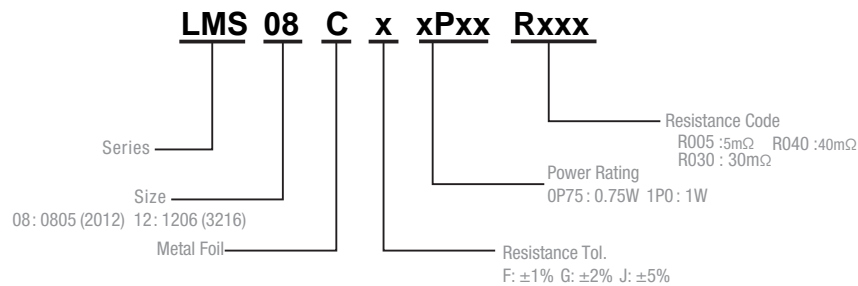


Description

- Proprietary processing technique produces extremely low resistance values
- Very low inductance
- Low thermal EMF
- Metal Foil



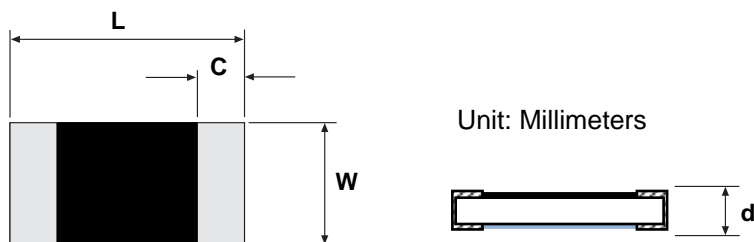
Part Numbering System



Specifications

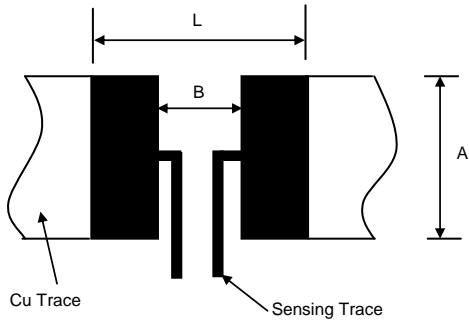
Type	Size	Power (W)	Tolerance	Resistance Value (mΩ)	Operation Temperature Range	T.C.R
LMS08	0805	0.75	±1%	5 ~ 40 mΩ	-55 ~ +155°C	±50ppm/°C
LMS12	1206	1.0	±2% ±5%	5 ~ 40 mΩ		

Dimensions



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

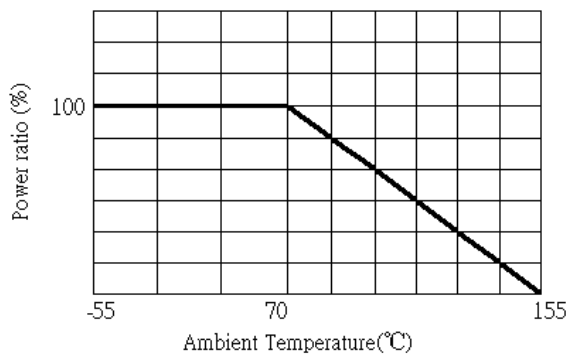
Series	Resistance (mΩ)	A	L	B
LMS08	$5 \leq R \leq 40$	1.4	3.2	1.2
LMS12	$5 \leq R \leq 30$	1.8	4.7	1.6
	$R = 40$		4.9	2.2

Packaging

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

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

Derating Curve



Rated Current & Voltage

$$I = (P/R)^{1/2}$$

I: Rated Current (A)

P: Rated Power (W)

$$V = (P \cdot R)^{1/2}$$

V: Rated Voltage (V)

R: Resistance Value (Ω)

Product Characteristics

Item	Test condition/ Methods	Limited	Standard
Resistance	Measuring resistance value at room temperature 25°C±5°C	Refer to Spec	IEC60115-1 4.5
Temperature coefficient of resistance	$TCR = \frac{(R-R_0)/R_0}{T_2-T_1} \times 10^6$ R ₀ : resistance of room temperature R: resistance of 125°C T ₁ : Room temperature T ₂ : Temperature at 125°C	Refer to Spec	MIL-STD-202 Method 304
Short time Overload	Apply overload for 5 seconds and measure the resistance change rate after standing for 24 hours. 5 times the rated power for 5 seconds	≤±1%	MIL-R-26E
Resistance to Soldering Heat	260°C±5°C time: 10sec±1sec	≤±0.5%	MIL-STD-202 Method 210
Temperature Cycling	-55°C (15min)/+125°C(15min), 1000 cycles	≤±1%	MIL-STD-202 Method107G
Low temperature Storage	-55°C for 1000hours, No power	≤±1%	MIL-STD-26E
High Temperature Storage	125°C for 1000hours, No power	≤±1%	IEC6011501-4.25
Bias Humidity	+85°C, 85% RH, 10%bias1.5 hours "ON", 0.5 hours "OFF", 1000hours	≤±1%	MIL-STD-202 Method103
Solderability	235±3°C, 3±0.5sec	At least 95% of surface area of electrode shall be covered with new solder	IEC60115-1-4.17 JIS-C5201-4.17
Substrate Bending	Bending width 3mm	< ±1%	IEC60115-1-4.33 JIS-C5201-4.33
Operational life	125°C, 1000 hours, at 35% rated power	≤±2%	MIL-STD-202 Method 108
Insulation Resistance	100V DC for 1 minute	>100 MΩ	IEC60115-1-4.6 JIS-C5201-4.6