

#### Current Sensing Resistors LMS Series



### Description

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

## Part Numbering System





#### **Specifications**

Туре	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





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### Recommended land pattern



		Unit: Millimeters		
Series	Resistance (m $\Omega$ )	А	L	В
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	1.0	4.9	2.2

# Packaging

Туре	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)<sup>1/2</sup> I: Rated Current (A)

P: Rated Power (W)

I= (P\*R)<sup>1/2</sup>

V: Rated Voltage (V)

R: Resistance Value ( $\Omega$ )



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#### **Product Characteristics**

ltem	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	$TCR = (R-R_0)/R_0(T2-T1)X \ 10^6 \\ T1 \ T2 \\ R_0: resistance of room temperature \\ R: resistance of 125 °C \\ T1: Room temperature \\ T2: Temperature at 125 °C \\ \end{tabular}$	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℃±5℃ time: 10sec±1sec	≤±0.5%	MIL-STD-202 Method 210
Temperature Cycling	-55℃ (15min)/+125℃(15min), 1000 cycles	≤±1%	MIL-STD-202 Method107G
Low temperature Storage	-55 $^\circ \mathrm{C}$ for 1000hours, No power	≤±1%	MIL-STD-26E
High Temperature Storage	125°C for 1000hours, No power	≤±1%	IEC6011501-4.25
Bias Humidity	+85℃,85% RH,10%bias1.5 hours "ON", 0.5 hours "OFF", 1000hours	≤±1%	MIL-STD-202 Method103
Solderability	235±3℃, 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 $^\circ\!\!\!\mathrm{C}$ , 1000 hours, at 35% rated power	≤±2%	MIL-STD-202 Method 108
Insulation Resistance	100V DC for 1 minute	> <b>100 Μ</b> Ω	IEC60115-1-4.6 JIS-C5201-4.6

单击下面可查看定价,库存,交付和生命周期等信息

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