

# OWIMNR252012-1R0

## SMD power inductor



### Description

Molded series with Alloy metal powder

### Features

RoHS, Halogen Free and REACH Compliant  
 High saturation current realized by material properties and structure design  
 Low DC resistance to achieve high conversion efficiency and lower temperature rise  
 Magnetically shielded structure to accomplish high resolution in EMC protection

### Applications

Typical applications: Small portable DC to DC convertes  
 Smart phones, tablets  
 Power supply modules with slim form factor  
 General DC/DC converters etc.

### General Specifications

Test Voltage	
Parameters Test Temp	25°C
Operation Temp (Including temperature Rise)	-40 to +125°C
Storage Temp	0 to 40°C
Storage Humidity	<70% RH
Resistance to Soldering Heat	260°C for 10 sec
Rated Current	<b>L drops off 30% typ at Isat</b>
Temperature Rise	40°C typ. at Irms

Inductance [ $\mu$ H]	Ltol.	Test freq.	DCR [ $m\Omega$ ]	Isat [A]	Irms [A]	Irated [mA]	Idc max [mA]	Q (min)	SRF[MHz]
1.00	M, N	1 MHz	49.00	4.04	3,18				

When ordering, please specify tolerance code. Tolerance: M= $\pm$ 20%, N= $\pm$ 30%

## Shape and dimensions [mm]

A	B	C	D	E	F	G	H	I	J	Shape
2.50	2.00	1.20	0.6				2	0.8	1.2	
$\pm$ 0.2	$\pm$ 0.2	Max	$\pm$ 0.3				Ref	Ref	Ref	



