

OWIHP0412M-1R0

SMD power inductor



Description

Molded series with Alloy metal powder

Features

High rated current
 Frequency up to 3 MHz
 125 deg. maximum total operation temperature
 Low core loss
 Ultra low buzz noise due to molding construction
 Halogen Free & ROHS compliant

Applications

Laptops and PCs
 Switch and servers
 Base stations
 DC/DC converters
 Battery powered devices
 SSD modules

General Specifications

Test Voltage	1.0V
Parameters Test Temp	20°C
Operation Temp	-55 to +125°C
(Including temperature Rise)	
Storage Temp	0 to 40°C
Storage Humidity	<70% RH
Resistance to Soldering Heat	260°C for 10 sec
Rated Current	L drops off 30% typ at Isat
Temperature Rise	40°C typ. at Irms

Inductance	Ltol.	Test freq.	DCR [mΩ]	Isat [A]	Irms [A]	Irated [mA]	Idc max [mA]	Q (min)	SRF[MHz]
1.00 uH	K, M, N	100 kHz	47.00	5.50	4,5				

When ordering, please specify tolerance code. Tolerance: K=±10%, M=±20%, N=±30%

Shape and dimensions [mm]

A	B	C	D	E	F	G	H	I	J	Shape
4.40	4.20	1.00	0.8	2			2.5	1.5	2.2	
±0.35	±0.25	±0.2	Ref	Ref			Ref	Ref	Ref	



