

# OWINR3012-R82

## SMD Power inductor



### Description

Ferrite core, semi-shielded, magnetic epoxy

### Features

RoHS, Halogen Free and REACH Compliance  
 Magnetic resin shielded construction reduces buzz noise to ultra-low levels  
 Metallization on ferrite core results in excellent shock resistance and damage-free durability  
 30% higher current rating than conventional inductors of equal size  
 Takes up less PCB real estate and saves power

### Applications

Flat-screen TVs, blue-ray disc recorders, set top boxes  
 Cameras and smart phones  
 Portable gaming devices, GPS, multimedia devices, Telecom base stations, VR/AR-glasses etc.

### General Specifications

Test Voltage	1.0V
Parameters Test Temp	25°C
Operation Temp (Including temperature Rise)	-40 to +125°C
Storage Temp	0 to 40°C
Storage Humidity	
Resistance to Soldering Heat	260° for 10 sec
Rated Current	L drops off 30% typ at Isat
Temperature Rise	40° typ. at Irms

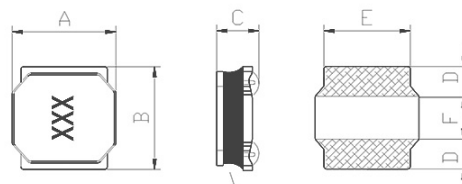
Inductance	Ltol.	Test freq.	DCR [mΩ]	Isat [A]	Irms [A]	Irated [mA]	Idc max [mA]	Q (min)	SRF[MHz]
0.82 uH	M, N	100kHz	50.00	2.05	2,47				180

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

## Shape and dimensions [mm]

A	B	C	D	E	F	G	H	I	J	Shape
3.00	3.00	1.30	0.9	2.8	1.2		3	1.3	0.9	
±0.2	±0.2	Max	Ref	Ref	Ref		Ref	Ref	Ref	

Fig.1



Magnetic shielding

Fig.2

