

OWINR3012-1R5

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 |

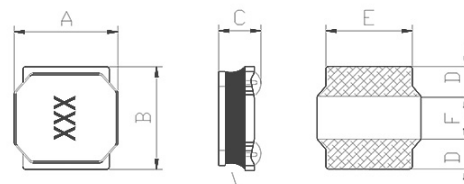
| Inductance [μ H] | Ltol. | Test freq. | DCR [$m\Omega$] | Isat [A] | Irms [A] | Irated [mA] | Idc max [mA] | Q (min) | SRF[MHz] |
|-----------------------|-------|------------|-------------------|----------|----------|-------------|--------------|---------|----------|
| 1.50 | M, N | 100kHz | 75.00 | 1.62 | 2,01 | | | | 110 |

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

