

# OWINR4020

## 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	20°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

Product ID	DCR [mohm]	Isat [A]	Irms [A]	Irated [mA]	Idc max [mA]	Q (min)	SRF [MHz]
<a href="#">OWINR4020-101</a>	2020.00	0.48	0,31			6,3	
<a href="#">OWINR4020-820</a>	1520.00	0.50	0,34			7,2	
<a href="#">OWINR4020-750</a>	1510.00	0.70	0,35			7,7	
<a href="#">OWINR4020-680</a>	1380.00	0.61	0,36			7,7	
<a href="#">OWINR4020-620</a>	1170.00	0.65	0,39			9,6	
<a href="#">OWINR4020-560</a>	1040.00	0.66	0,41			10	
<a href="#">OWINR4020-510</a>	975.00	0.70	0,42			10	
<a href="#">OWINR4020-470</a>	923.00	0.74	0,44			10	
<a href="#">OWINR4020-430</a>	858.00	0.77	0,45			10	
<a href="#">OWINR4020-390</a>	845.00	0.82	0,46			11	
<a href="#">OWINR4020-330</a>	715.00	0.85	0,49			11	
<a href="#">OWINR4020-270</a>	709.00	1.02	0,5			14	
<a href="#">OWINR4020-220</a>	455.00	1.05	0,62			15	
<a href="#">OWINR4020-150</a>	299.00	1.35	0,77			24	
<a href="#">OWINR4020-120</a>	228.00	1.50	0,88			26	
<a href="#">OWINR4020-100</a>	215.00	1.60	0,9			26	
<a href="#">OWINR4020-6R8</a>	163.00	2.20	1,04			33	
<a href="#">OWINR4020-8R2</a>	163.00	1.75	1,04			27	
<a href="#">OWINR4020-6R2</a>	150.00	2.15	1,08			36	
<a href="#">OWINR4020-7R5</a>	150.00	1.85	1,08			30	
<a href="#">OWINR4020-5R6</a>	117.00	2.20	1,22			30	
<a href="#">OWINR4020-5R1</a>	111.00	2.30	1,27			42	
<a href="#">OWINR4020-4R7</a>	98.00	2.35	1,34			42	

OWINR4020-3R3	91.00	3.20	1,4	44
OWINR4020-3R6	72.00	2.80	1,54	49
OWINR4020-2R2	52.00	3.40	1,85	49
OWINR4020-1R5	46.00	4.45	1,98	71
OWINR4020-1R0	38.00	4.78	2,15	75
OWINR4020-1R2	38.00	5.10	2,15	72
OWINR4020-R68	36.00	6.40	2,8	120
OWINR4020-R47	29.00	7.00	3,3	160
OWINR4020-R33	16.00	7.50	3,3	223
OWINR4020-R24	14.00	10.50	4,5	283

### Shape and dimensions [mm]

A	B	C	D	E	F	G	H	I	J	Shape
4.00	4.00	2.10	1.2	3.5	1.6		3.8	1.6	1.3	Fig.1
±0.2	±0.2	Max	Ref	Ref	Ref		Ref	Ref	Ref	

