

OWINR5020

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]
OWINR5020-201	2600.00	0.30	0,4			4,5	
OWINR5020-121	1755.00	0.42	0,4			6	
OWINR5020-101	1430.00	0.53	0,53			6	
OWINR5020-820	1158.00	0.65	0,5			6	
OWINR5020-680	962.00	0.65	0,64			6	
OWINR5020-560	819.00	0.77	0,7			6	
OWINR5020-470	680.00	0.77	0,77			7	
OWINR5020-330	507.00	0.92	0,9			10	
OWINR5020-220	294.00	1.15	1,1			14	
OWINR5020-180	260.00	1.25	1,15			16	
OWINR5020-150	215.00	1.35	1,25			20	
OWINR5020-120	182.00	1.50	1,4			22	
OWINR5020-9R1	143.00	1.70	1,55			24	
OWINR5020-100	143.00	1.70	1,55			24	
OWINR5020-8R2	127.00	1.85	1,65			26	
OWINR5020-7R5	117.00	1.85	1,75			26	
OWINR5020-6R8	108.00	2.05	1,8			30	
OWINR5020-5R1	83.00	2.25	2,05			32	
OWINR5020-5R6	83.00	2.30	2,05			32	
OWINR5020-4R3	74.00	2.50	2,2			37	
OWINR5020-4R7	74.00	2.50	2,2			37	
OWINR5020-3R3	56.00	2.55	2,5			46	
OWINR5020-3R6	56.00	2.80	2,5			43	

OWINR5020-3R9	56.00	2.30	2,5	40
OWINR5020-2R7	49.00	2.90	2,7	52
OWINR5020-3R0	49.00	2.55	2,7	49
OWINR5020-2R2	42.00	3.20	2,9	57
OWINR5020-1R5	34.00	4.10	3,2	68
OWINR5020-1R2	29.00	4.50	3,55	83
OWINR5020-1R0	26.00	4.10	3,8	114
OWINR5020-R56	22.00	8.50	3,8	137
OWINR5020-R68	22.00	5.50	4	120
OWINR5020-R75	22.00	5.50	4	117
OWINR5020-R47	17.00	6.15	4,6	160
OWINR5020-R22	11.00	9.00	5,3	280
OWINR5020-R24	11.00	8.00	5,3	248

Shape and dimensions [mm]

A	B	C	D	E	F	G	H	I	J	Shape
5.00	5.00	2.00	1.35	4	2.5		4.3	1.75	2	Fig.2
±0.2	±0.2	Max	Ref	Ref	Ref		Ref	Ref	Ref	

