

OWINR4020

NR series



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.

Characteristics

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]
OWINR4020-101	2020.00	0.48	0,31			6,3	
OWINR4020-820	1520.00	0.50	0,34			7,2	
OWINR4020-750	1510.00	0.70	0,35			7,7	
OWINR4020-680	1380.00	0.61	0,36			7,7	
OWINR4020-620	1170.00	0.65	0,39			9,6	
OWINR4020-560	1040.00	0.66	0,41			10	
OWINR4020-510	975.00	0.70	0,42			10	
OWINR4020-470	923.00	0.74	0,44			10	
OWINR4020-430	858.00	0.77	0,45			10	
OWINR4020-390	845.00	0.82	0,46			11	
OWINR4020-330	715.00	0.85	0,49			11	
OWINR4020-270	709.00	1.02	0,5			14	
OWINR4020-220	455.00	1.05	0,62			15	
OWINR4020-150	299.00	1.35	0,77			24	
OWINR4020-120	228.00	1.50	0,88			26	
OWINR4020-100	215.00	1.60	0,9			26	
OWINR4020-6R8	163.00	2.20	1,04			33	
OWINR4020-8R2	163.00	1.75	1,04			27	
OWINR4020-6R2	150.00	2.15	1,08			36	
OWINR4020-7R5	150.00	1.85	1,08			30	
OWINR4020-5R6	117.00	2.20	1,22			30	
OWINR4020-5R1	111.00	2.30	1,27			42	
OWINR4020-4R7	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 ±0.2	4.00 ±0.2	2.10 Max	1.2 Ref	3.5 Ref	1.6 Ref		3.8 Ref	1.6 Ref	1.3 Ref	Fig.1

