

OWINR3012

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	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

Product ID	DCR [mohm]	Isat [A]	Irms [A]	Irated [mA]	Idc max [mA]	Q (min)	SRF [MHz]
OWINR3012-101	3718.00	0.21	0,25			5	
OWINR3012-820	3302.00	0.17	0,27			7	
OWINR3012-680	2171.00	0.24	0,33			7	
OWINR3012-560	1950.00	0.26	0,28			9	
OWINR3012-470	1885.00	0.27	0,35			14	
OWINR3012-390	1729.00	0.30	0,37			18	
OWINR3012-360	1235.00	0.34	0,44			18	
OWINR3012-330	1138.00	0.36	0,46			18	
OWINR3012-270	1131.00	0.35	0,47			21	
OWINR3012-220	839.00	0.42	0,53			23	
OWINR3012-180	709.00	0.43	0,58			25	
OWINR3012-150	492.00	0.45	0,71			27	
OWINR3012-120	480.00	0.48	0,73			32	
OWINR3012-100	345.00	0.60	0,83			42	
OWINR3012-6R8	247.00	0.75	0,98			61	
OWINR3012-5R6	226.00	0.80	1,13			61	
OWINR3012-3R6	156.00	1.05	1,36			36	
OWINR3012-3R9	156.00	1.00	1,24			61	
OWINR3012-4R7	156.00	0.90	1,24			61	
OWINR3012-3R3	130.00	1.05	1,36			64	
OWINR3012-2R4	110.00	1.15	1,6			100	
OWINR3012-2R7	110.00	1.14	1,48			65	
OWINR3012-2R2	105.00	1.20	1,55			84	

OWINR3012-1R8	98.00	1.30	1,65	90
OWINR3012-1R5	75.00	1.62	2,01	110
OWINR3012-1R2	72.00	1.80	2,01	120
OWINR3012-1R0	60.00	1.87	2,2	120
OWINR3012-R82	50.00	2.05	2,47	180
OWINR3012-R22	30.00	5.30	3	321

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	

