

OWINR5020

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 (Incl temp 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	Inductance [µH]	DCR [mOhm]	Isat [A]	Irms [A]	Irated [mA]	Idc max [mA]	Q (min)	SRF [MHz]	Samples
OWINR5020-201	200.00	2600.00	0.30	0,4				4,5	-
OWINR5020-121	120.00	1755.00	0.42	0,4				6	-
OWINR5020-101	100.00	1430.00	0.53	0,53				6	-
OWINR5020-820	82.00	1158.00	0.65	0,5				6	-
OWINR5020-680	68.00	962.00	0.65	0,64				6	-
OWINR5020-560	56.00	819.00	0.77	0,7				6	-
OWINR5020-470	47.00	680.00	0.77	0,77				7	-
OWINR5020-330	33.00	507.00	0.92	0,9				10	-
OWINR5020-220	22.00	294.00	1.15	1,1				14	-
OWINR5020-180	18.00	260.00	1.25	1,15				16	-
OWINR5020-150	15.00	215.00	1.35	1,25				20	-
OWINR5020-120	12.00	182.00	1.50	1,4				22	-
OWINR5020-9R1	9.10	143.00	1.70	1,55				24	-
OWINR5020-100	10.00	143.00	1.70	1,55				24	-
OWINR5020-8R2	8.20	127.00	1.85	1,65				26	-
OWINR5020-7R5	7.50	117.00	1.85	1,75				26	-
OWINR5020-6R8	6.80	108.00	2.05	1,8				30	-
OWINR5020-5R1	5.10	83.00	2.25	2,05				32	-
OWINR5020-5R6	5.60	83.00	2.30	2,05				32	-
OWINR5020-4R3	4.30	74.00	2.50	2,2				37	-
OWINR5020-4R7	4.70	74.00	2.50	2,2				37	-
OWINR5020-3R3	3.30	56.00	2.55	2,5				46	-
OWINR5020-3R6	3.60	56.00	2.80	2,5				43	-

OWINR5020-3R9	3.90	56.00	2.30	2,5						40	-
OWINR5020-2R7	2.70	49.00	2.90	2,7						52	-
OWINR5020-3R0	3.00	49.00	2.55	2,7						49	-
OWINR5020-2R2	2.20	42.00	3.20	2,9						57	-
OWINR5020-1R5	1.50	34.00	4.10	3,2						68	-
OWINR5020-1R2	1.20	29.00	4.50	3,55						83	-
OWINR5020-1R0	1.00	26.00	4.10	3,8						114	-
OWINR5020-R56	0.56	22.00	8.50	3,8						137	-
OWINR5020-R68	0.68	22.00	5.50	4						120	-
OWINR5020-R75	0.75	22.00	5.50	4						117	-
OWINR5020-R47	0.47	17.00	6.15	4,6						160	-
OWINR5020-R22	0.22	11.00	9.00	5,3						280	-
OWINR5020-R24	0.24	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	

