

# OWINR5040

## 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] |
|---------------|------------|----------|----------|-------------|--------------|---------|-----------|
| OWINR5040-102 | 7800.00    | 0.21     | 0,2      |             |              | 1,3     |           |
| OWINR5040-151 | 975.00     | 0.65     | 0,6      |             |              | 3,7     |           |
| OWINR5040-101 | 728.00     | 0.75     | 0,7      |             |              | 5       |           |
| OWINR5040-680 | 520.00     | 0.90     | 0,8      |             |              | 6       |           |
| OWINR5040-470 | 354.00     | 1.10     | 1        |             |              | 7       |           |
| OWINR5040-330 | 244.00     | 1.30     | 1,2      |             |              | 9       |           |
| OWINR5040-220 | 168.00     | 1.60     | 1,5      |             |              | 11      |           |
| OWINR5040-150 | 112.00     | 2.00     | 2        |             |              | 13      |           |
| OWINR5040-100 | 83.00      | 2.35     | 2,1      |             |              | 18      |           |
| OWINR5040-8R2 | 62.00      | 2.70     | 2,3      |             |              | 20      |           |
| OWINR5040-6R8 | 56.00      | 2.90     | 2,5      |             |              | 21      |           |
| OWINR5040-5R6 | 46.00      | 3.00     | 2,8      |             |              | 27      |           |
| OWINR5040-4R7 | 39.00      | 3.50     | 3        |             |              | 28      |           |
| OWINR5040-3R9 | 35.00      | 3.55     | 3,2      |             |              | 29      |           |
| OWINR5040-3R6 | 34.00      | 3.80     | 3,3      |             |              | 30      |           |
| OWINR5040-3R3 | 31.00      | 3.95     | 3,4      |             |              | 32      |           |
| OWINR5040-2R7 | 29.00      | 4.30     | 3,6      |             |              | 37      |           |
| OWINR5040-3R0 | 29.00      | 4.15     | 3,6      |             |              | 37      |           |
| OWINR5040-2R2 | 25.00      | 4.90     | 3,8      |             |              | 50      |           |
| OWINR5040-1R2 | 21.00      | 6.50     | 4,15     |             |              | 110     |           |
| OWINR5040-1R8 | 21.00      | 5.50     | 4,15     |             |              | 55      |           |
| OWINR5040-1R5 | 20.00      | 6.30     | 4,3      |             |              | 86      |           |
| OWINR5040-1R0 | 16.00      | 7.35     | 4,9      |             |              | 117     |           |

Shape and dimensions [mm]

| A            | B            | C           | D          | E        | F          | G | H          | I          | J          | Shape |
|--------------|--------------|-------------|------------|----------|------------|---|------------|------------|------------|-------|
| 5.00<br>±0.2 | 5.00<br>±0.2 | 4.00<br>Max | 1.5<br>Ref | 4<br>Ref | 2.5<br>Ref |   | 4.3<br>Ref | 1.9<br>Ref | 1.7<br>Ref | Fig.1 |

