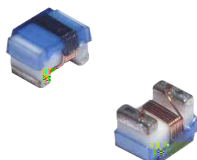


# WCIV Series

## Wire Wound Inductor

### Size 2012



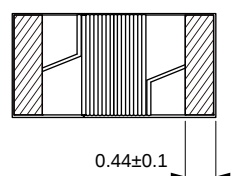
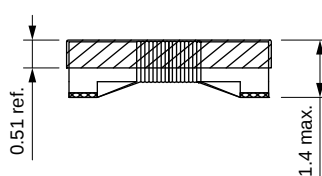
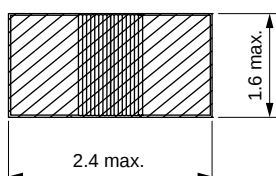
#### FEATURES

- Ceramic core wire wound construction with high Q and high SRF
- Small size and small tolerance available
- AEC-Q200 qualified
- Lead-free reflow soldering as referenced in JEDEC J-STD 020D and RoHS compliant
- Operating Temperature: -55~+125°C (Including self-temperature)
- Quantity: 2000pcs

#### APPLICATION

- Resonant circuits, impedance matching for
- Antenna amplifiers
- Multimedia
- Wireless communication systems
- Automotive electronics
- GPS (Global Positioning System)
- Low-pass filters for data lines

#### Dimensions: [mm]



#### Electrical Properties:

|                 | (nH) |     | (Hz)      |    | Q (MHz) | (mA) | (Ω)  | (MHz) |
|-----------------|------|-----|-----------|----|---------|------|------|-------|
| WCIV2012HF-2N0□ | 2.0  | C,S | 0.1V/250M | 70 | 1500    | 800  | 0.03 | 8000  |
| WCIV2012HF-3N9□ | 3.9  | C,S | 0.1V/250M | 70 | 1500    | 800  | 0.04 | 5750  |
| WCIV2012HF-4N7□ | 4.7  | C,S | 0.1V/250M | 70 | 1500    | 800  | 0.04 | 5750  |
| WCIV2012HF-6N8□ | 6.8  | C,J | 0.1V/250M | 70 | 1500    | 800  | 0.06 | 5500  |
| WCIV2012HF-7N5□ | 7.5  | C,J | 0.1V/250M | 70 | 1000    | 800  | 0.06 | 4500  |
| WCIV2012HF-8N2□ | 8.2  | C,J | 0.1V/250M | 70 | 1000    | 800  | 0.06 | 4700  |
| WCIV2012HF-10NJ | 10   | ±5% | 0.1V/250M | 70 | 1000    | 600  | 0.08 | 4200  |
| WCIV2012HF-12NJ | 12   | ±5% | 0.1V/250M | 80 | 1000    | 600  | 0.08 | 4000  |
| WCIV2012HF-15NJ | 15   | ±5% | 0.1V/250M | 80 | 1000    | 600  | 0.10 | 3400  |
| WCIV2012HF-18NJ | 18   | ±5% | 0.1V/250M | 80 | 1000    | 600  | 0.10 | 3300  |
| WCIV2012HF-22NJ | 22   | ±5% | 0.1V/250M | 60 | 500     | 600  | 0.12 | 2600  |
| WCIV2012HF-24NJ | 24   | ±5% | 0.1V/250M | 60 | 500     | 600  | 0.12 | 2000  |

|                 | (nH) |           | (Hz)      |    | Q (MHz) | (mA) | ( $\Omega$ ) | (MHz) |
|-----------------|------|-----------|-----------|----|---------|------|--------------|-------|
| WCIV2012HF-27NJ | 27   | $\pm 5\%$ | 0.1V/250M | 60 | 500     | 600  | 0.12         | 2500  |
| WCIV2012HF-33NJ | 33   | $\pm 5\%$ | 0.1V/250M | 60 | 500     | 600  | 0.13         | 2050  |
| WCIV2012HF-36NJ | 36   | $\pm 5\%$ | 0.1V/250M | 65 | 500     | 600  | 0.13         | 1700  |
| WCIV2012HF-39NJ | 39   | $\pm 5\%$ | 0.1V/250M | 65 | 500     | 600  | 0.15         | 2000  |
| WCIV2012HF-43NJ | 43   | $\pm 5\%$ | 0.1V/200M | 65 | 500     | 600  | 0.15         | 1650  |
| WCIV2012HF-47NJ | 47   | $\pm 5\%$ | 0.1V/200M | 65 | 500     | 600  | 0.17         | 1650  |
| WCIV2012HF-56NJ | 56   | $\pm 5\%$ | 0.1V/200M | 65 | 500     | 600  | 0.19         | 1550  |
| WCIV2012HF-68NJ | 68   | $\pm 5\%$ | 0.1V/200M | 60 | 500     | 500  | 0.22         | 1450  |
| WCIV2012HF-82NJ | 82   | $\pm 5\%$ | 0.1V/150M | 55 | 500     | 400  | 0.40         | 1300  |
| WCIV2012HF-R10J | 100  | $\pm 5\%$ | 0.1V/150M | 55 | 500     | 400  | 0.52         | 1200  |
| WCIV2012HF-R11J | 110  | $\pm 5\%$ | 0.1V/150M | 55 | 500     | 400  | 0.52         | 1200  |
| WCIV2012HF-R12J | 120  | $\pm 5\%$ | 0.1V/150M | 50 | 250     | 400  | 0.55         | 1100  |
| WCIV2012HF-R15J | 150  | $\pm 5\%$ | 0.1V/150M | 50 | 250     | 400  | 0.73         | 920   |
| WCIV2012HF-R18J | 180  | $\pm 5\%$ | 0.1V/100M | 50 | 250     | 400  | 0.88         | 870   |
| WCIV2012HF-R22J | 220  | $\pm 5\%$ | 0.1V/100M | 50 | 250     | 340  | 1.18         | 850   |
| WCIV2012HF-R24J | 240  | $\pm 5\%$ | 0.1V/100M | 48 | 250     | 330  | 1.20         | 690   |
| WCIV2012HF-R27J | 270  | $\pm 5\%$ | 0.1V/100M | 48 | 250     | 310  | 1.36         | 650   |
| WCIV2012HF-R33J | 330  | $\pm 5\%$ | 0.1V/100M | 40 | 250     | 300  | 1.40         | 600   |
| WCIV2012HF-R39J | 390  | $\pm 5\%$ | 0.1V/100M | 25 | 250     | 290  | 1.50         | 560   |
| WCIV2012HF-R47J | 470  | $\pm 5\%$ | 0.1V/50M  | 25 | 100     | 250  | 1.76         | 375   |
| WCIV2012HF-R56J | 560  | $\pm 5\%$ | 0.1V/25M  | 23 | 100     | 210  | 1.90         | 340   |
| WCIV2012HF-R62J | 620  | $\pm 5\%$ | 0.1V/25M  | 23 | 100     | 205  | 2.00         | 220   |
| WCIV2012HF-R68J | 680  | $\pm 5\%$ | 0.1V/25M  | 23 | 100     | 200  | 2.15         | 200   |
| WCIV2012HF-R75J | 750  | $\pm 5\%$ | 0.1V/25M  | 20 | 100     | 185  | 2.25         | 200   |
| WCIV2012HF-R82J | 820  | $\pm 5\%$ | 0.1V/25M  | 20 | 100     | 170  | 2.50         | 200   |
| WCIV2012HF-1R0J | 1000 | $\pm 5\%$ | 0.1V/25M  | 15 | 50      | 170  | 2.60         | 100   |

Inductance Tolerance: C= $\pm 0.2\text{nH}$ , S= $\pm 0.3\text{nH}$ , J= $\pm 0.5\%$

