

## WWCI Series

### SMD Wire Wound Ceramic Inductor

#### Size 1008



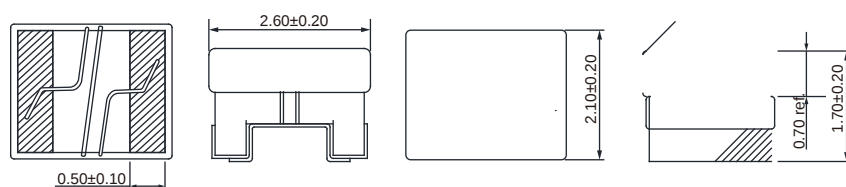
#### CHARACTERISTICS

- Wire wound with high Q and high SRF
- More stable due to ceramic design
- Small size and small tolerance available
- Quantity: 2000pcs

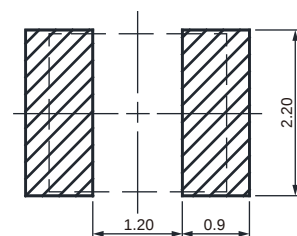
#### APPLICATION

- HF application

#### Dimensions: [mm]



#### Land Pattern: [mm]



#### Electrical Properties:

|               |     | Condition |         |    | Condition |      | (Ω)  |      |
|---------------|-----|-----------|---------|----|-----------|------|------|------|
| WWCI1008-3N3S | 3.3 | 100       | ±0.3 nH | 50 | 1000      | 1000 | 0.06 | 6000 |
| WWCI1008-6N8J | 6.8 | 100       | ±5%     | 50 | 1000      | 1000 | 0.06 | 5500 |
| WWCI1008-8N2J | 8.2 | 100       | ±5%     | 50 | 1000      | 1000 | 0.06 | 5500 |
| WWCI1008-10NJ | 10  | 100       | ±5%     | 50 | 1000      | 1000 | 0.08 | 4300 |
| WWCI1008-10NG | 10  | 100       | ±2%     | 50 | 1000      | 1000 | 0.08 | 4300 |
| WWCI1008-12NJ | 12  | 100       | ±5%     | 60 | 500       | 1000 | 0.08 | 3600 |
| WWCI1008-12NG | 12  | 100       | ±2%     | 60 | 500       | 1000 | 0.08 | 3600 |
| WWCI1008-15NJ | 15  | 100       | ±5%     | 60 | 500       | 1000 | 0.08 | 2700 |
| WWCI1008-15NG | 15  | 100       | ±2%     | 60 | 500       | 1000 | 0.08 | 2700 |
| WWCI1008-18NJ | 18  | 100       | ±5%     | 60 | 350       | 1000 | 0.1  | 2700 |
| WWCI1008-18NG | 18  | 100       | ±2%     | 60 | 350       | 1000 | 0.1  | 2700 |
| WWCI1008-22NJ | 22  | 100       | ±5%     | 60 | 350       | 1000 | 0.1  | 2500 |
| WWCI1008-22NG | 22  | 100       | ±2%     | 60 | 350       | 1000 | 0.1  | 2500 |
| WWCI1008-27NJ | 27  | 100       | ±5%     | 60 | 350       | 1000 | 0.1  | 1800 |
| WWCI1008-27NG | 27  | 100       | ±2%     | 60 | 350       | 1000 | 0.1  | 1800 |
| WWCI1008-33NJ | 33  | 100       | ±5%     | 60 | 350       | 1000 | 0.1  | 1700 |

|               |      | Condition |           |    | Condition |      | ( $\Omega$ ) |      |
|---------------|------|-----------|-----------|----|-----------|------|--------------|------|
| WWCI1008-33NG | 33   | 100       | $\pm 2\%$ | 60 | 350       | 1000 | 0.1          | 1700 |
| WWCI1008-39NJ | 39   | 100       | $\pm 5\%$ | 60 | 350       | 1000 | 0.1          | 1500 |
| WWCI1008-39NG | 39   | 100       | $\pm 2\%$ | 60 | 350       | 1000 | 0.1          | 1500 |
| WWCI1008-47NJ | 47   | 100       | $\pm 5\%$ | 60 | 350       | 1000 | 0.1          | 1500 |
| WWCI1008-47NG | 47   | 100       | $\pm 2\%$ | 60 | 350       | 1000 | 0.1          | 1500 |
| WWCI1008-56NJ | 56   | 100       | $\pm 5\%$ | 60 | 350       | 1000 | 0.12         | 1350 |
| WWCI1008-56NG | 56   | 100       | $\pm 2\%$ | 60 | 350       | 1000 | 0.12         | 1350 |
| WWCI1008-68NJ | 68   | 100       | $\pm 5\%$ | 60 | 350       | 1000 | 0.15         | 1300 |
| WWCI1008-68NG | 68   | 100       | $\pm 2\%$ | 60 | 350       | 1000 | 0.15         | 1300 |
| WWCI1008-82NJ | 82   | 100       | $\pm 5\%$ | 60 | 350       | 1000 | 0.18         | 1100 |
| WWCI1008-82NG | 82   | 100       | $\pm 2\%$ | 60 | 350       | 1000 | 0.18         | 1100 |
| WWCI1008-R10J | 100  | 100       | $\pm 5\%$ | 60 | 350       | 1000 | 0.18         | 1100 |
| WWCI1008-R10G | 100  | 100       | $\pm 2\%$ | 60 | 350       | 1000 | 0.18         | 1100 |
| WWCI1008-R12J | 120  | 25.2      | $\pm 5\%$ | 45 | 100       | 800  | 0.2          | 950  |
| WWCI1008-R12G | 120  | 25.2      | $\pm 2\%$ | 45 | 100       | 800  | 0.2          | 950  |
| WWCI1008-R15J | 150  | 25.2      | $\pm 5\%$ | 45 | 100       | 800  | 0.22         | 880  |
| WWCI1008-R15G | 150  | 25.2      | $\pm 2\%$ | 45 | 100       | 800  | 0.22         | 880  |
| WWCI1008-R18J | 180  | 25.2      | $\pm 5\%$ | 45 | 100       | 800  | 0.33         | 800  |
| WWCI1008-R18G | 180  | 25.2      | $\pm 2\%$ | 45 | 100       | 800  | 0.33         | 800  |
| WWCI1008-R22J | 220  | 25.2      | $\pm 5\%$ | 45 | 100       | 800  | 0.45         | 730  |
| WWCI1008-R22G | 220  | 25.2      | $\pm 2\%$ | 45 | 100       | 800  | 0.45         | 730  |
| WWCI1008-R27J | 270  | 25.2      | $\pm 5\%$ | 45 | 100       | 600  | 0.75         | 650  |
| WWCI1008-R27G | 270  | 25.2      | $\pm 2\%$ | 45 | 100       | 600  | 0.75         | 650  |
| WWCI1008-R33J | 330  | 25.2      | $\pm 5\%$ | 45 | 100       | 500  | 0.9          | 570  |
| WWCI1008-R33G | 330  | 25.2      | $\pm 2\%$ | 45 | 100       | 500  | 0.9          | 570  |
| WWCI1008-R39J | 390  | 25.2      | $\pm 5\%$ | 45 | 100       | 470  | 1.06         | 530  |
| WWCI1008-R39G | 390  | 25.2      | $\pm 2\%$ | 45 | 100       | 470  | 1.06         | 530  |
| WWCI1008-R47J | 470  | 25.2      | $\pm 5\%$ | 45 | 100       | 420  | 1.17         | 480  |
| WWCI1008-R47G | 470  | 25.2      | $\pm 2\%$ | 45 | 100       | 420  | 1.17         | 480  |
| WWCI1008-R56J | 560  | 25.2      | $\pm 5\%$ | 45 | 100       | 310  | 1.5          | 430  |
| WWCI1008-R56G | 560  | 25.2      | $\pm 2\%$ | 45 | 100       | 310  | 1.5          | 430  |
| WWCI1008-R68J | 680  | 25.2      | $\pm 5\%$ | 45 | 100       | 230  | 2.06         | 380  |
| WWCI1008-R68G | 680  | 25.2      | $\pm 2\%$ | 45 | 100       | 230  | 2.06         | 380  |
| WWCI1008-R82J | 820  | 25.2      | $\pm 5\%$ | 45 | 100       | 180  | 2.3          | 350  |
| WWCI1008-R82G | 820  | 25.2      | $\pm 2\%$ | 45 | 100       | 180  | 2.3          | 350  |
| WWCI1008-1R0J | 1000 | 25.2      | $\pm 5\%$ | 35 | 50        | 120  | 3.3          | 310  |
| WWCI1008-1R0G | 1000 | 25.2      | $\pm 2\%$ | 35 | 50        | 120  | 3.3          | 310  |

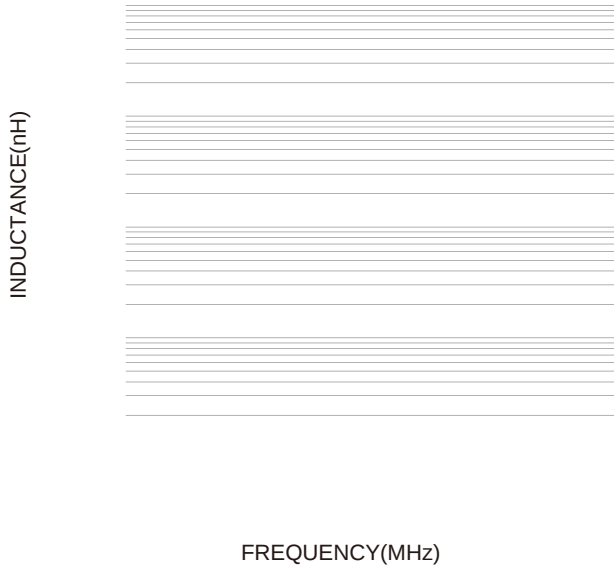
Operating temperature: -40 to +125°C

Temperature rise current: the actual value of DC current when the temperature rise is  $\Delta T 15^{\circ}\text{C}$



## Typical Electrical Characteristics:

Inductance VS. Frequency Characteristics:



Temperture Rise VS. Frequency Characteristics:

