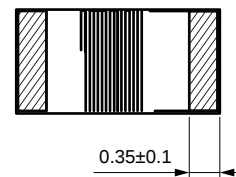
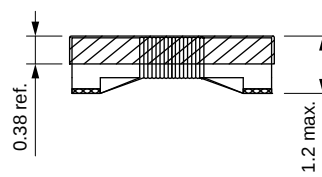
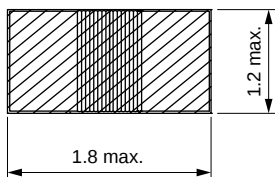


## FEATURES

- 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)
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## APPLICATION

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|                 | Inductance<br>(nH) | Test<br>Frequency<br>(Hz) | Test<br>Frequency<br>Q (MHz) |
|-----------------|--------------------|---------------------------|------------------------------|
|                 | 2.0                | 0.1V/250M                 | 250                          |
| WCIV1608HF-3N9□ | 3.9                | 0.1V/250M                 | 250                          |
| WCIV1608HF-4N7□ | 4.7                | 0.1V/250M                 | 250                          |
| WCIV1608HF-6N8□ | 6.8                | 0.1V/250M                 | 250                          |
| WCIV1608HF-8N2□ | 8.2                | 0.1V/250M                 | 250                          |
| WCIV1608HF-10NJ | 10                 | 0.1V/250M                 | 250                          |
| WCIV1608HF-12NJ | 12                 | 0.1V/250M                 | 250                          |
| WCIV1608HF-15NJ | 15                 | 0.1V/250M                 | 250                          |
| WCIV1608HF-18NJ | 18                 | 0.1V/250M                 | 250                          |
| WCIV1608HF-22NJ | 22                 | 0.1V/250M                 | 250                          |
| WCIV1608HF-24NJ | 24                 | 0.1V/250M                 | 250                          |

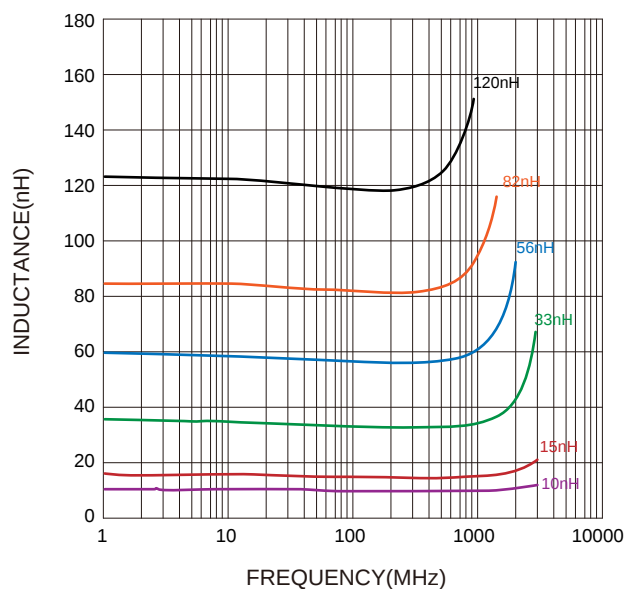


| Part No         | Inductance (nH) | Tolerance | Test Frequency (Hz) | Q Min. | Test Frequency Q (MHz) | Temperature Rise Current Max. (mA) | DC Resistance Max. ( $\Omega$ ) | SRF Min. (MHz) |
|-----------------|-----------------|-----------|---------------------|--------|------------------------|------------------------------------|---------------------------------|----------------|
| WCIV1608HF-27NJ | 27              | $\pm 5\%$ | 0.1V/250M           | 40     | 250                    | 600                                | 0.14                            | 2800           |
| WCIV1608HF-33NJ | 33              | $\pm 5\%$ | 0.1V/250M           | 40     | 250                    | 600                                | 0.22                            | 2300           |
| WCIV1608HF-39NJ | 39              | $\pm 5\%$ | 0.1V/250M           | 40     | 250                    | 600                                | 0.30                            | 2200           |
| WCIV1608HF-47NJ | 47              | $\pm 5\%$ | 0.1V/200M           | 38     | 250                    | 600                                | 0.35                            | 2000           |
| WCIV1608HF-56NJ | 56              | $\pm 5\%$ | 0.1V/200M           | 38     | 250                    | 600                                | 0.37                            | 1900           |
| WCIV1608HF-68NJ | 68              | $\pm 5\%$ | 0.1V/200M           | 37     | 250                    | 600                                | 0.43                            | 1700           |
| WCIV1608HF-72NJ | 72              | $\pm 5\%$ | 0.1V/150M           | 34     | 250                    | 400                                | 0.42                            | 1700           |
| WCIV1608HF-82NJ | 82              | $\pm 5\%$ | 0.1V/150M           | 34     | 250                    | 400                                | 0.71                            | 1700           |
| WCIV1608HF-R10J | 100             | $\pm 5\%$ | 0.1V/150M           | 34     | 250                    | 400                                | 0.78                            | 1400           |
| WCIV1608HF-R12J | 120             | $\pm 5\%$ | 0.1V/150M           | 32     | 250                    | 300                                | 0.84                            | 1300           |
| WCIV1608HF-R15J | 150             | $\pm 5\%$ | 0.1V/150M           | 28     | 250                    | 280                                | 0.96                            | 990            |
| WCIV1608HF-R18J | 180             | $\pm 5\%$ | 0.1V/100M           | 25     | 250                    | 240                                | 1.52                            | 990            |
| WCIV1608HF-R22J | 220             | $\pm 5\%$ | 0.1V/100M           | 25     | 250                    | 200                                | 2.02                            | 900            |
| WCIV1608HF-R27J | 270             | $\pm 5\%$ | 0.1V/100M           | 24     | 250                    | 170                                | 2.36                            | 900            |
| WCIV1608HF-R33J | 330             | $\pm 5\%$ | 0.1V/100M           | 24     | 250                    | 185                                | 3.40                            | 700            |
| WCIV1608HF-R39J | 390             | $\pm 5\%$ | 0.1V/100M           | 24     | 250                    | 100                                | 3.60                            | 900            |

Inductance Tolerance: C= $\pm 0.2$ nH , S= $\pm 0.3$ nH , J= $\pm 5\%$

## Typical Electrical Characteristics:

Inductance VS. Frequency Characteristics:



Q VS. Frequency Characteristics:

