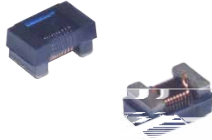


# WIV Series

## Wire Wound Inductor

### Size 1608



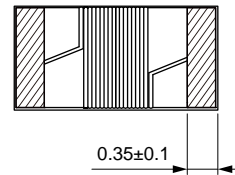
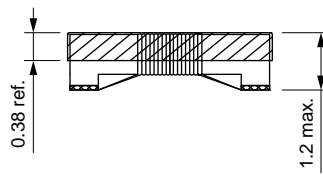
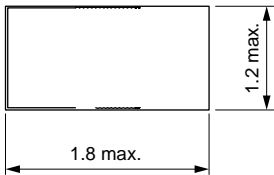
#### FEATURES

- Ferrite core wire wound construction
- High Reliability due to wire wound type construction
- Small footprint as well as low profile
- Application for DC power line
- Lead-free reflow soldering as referenced in JEDEC J-STD 020D and RoHS compliant
- AEC-Q200 qualified
- Operating temperature -55~+125°C (Including self-temperature rise)
- Quantity: 3000 pcs

#### APPLICATION

- Filtering of supply voltages, coupling, decoupling
- DC/DC converters, switch-mode power supplies
- Entertainment equipment: car navigations, car audios
- Body control equipment like wipers, power windows

#### Dimensions: [mm]



#### Electrical Properties:

|              | Inductance | Tolerance | Test Frequency | Q Min. | Test Frequency | DC Resist. (mΩ) | CTC @ 100 Min. CT @ 100°C | CTD @ 100°C |
|--------------|------------|-----------|----------------|--------|----------------|-----------------|---------------------------|-------------|
| WIV1608-47NK | 0.047      | ±10%      | 0.5V/7.96M     | 10     | 7.96           | 0.075           |                           |             |
| WIV1608-R10K | 0.10       | ±10%      | 0.5V/7.96M     | 10     | 7.96           | 0.13            |                           |             |
| WIV1608-R12K | 0.12       | ±10%      | 0.5V/7.96M     | 10     | 7.96           | 0.15            |                           |             |
| WIV1608-R15K | 0.15       | ±10%      | 0.5V/7.96M     | 10     | 7.96           | 0.15            |                           |             |
| WIV1608-R18K | 0.18       | ±10%      | 0.5V/7.96M     | 10     | 7.96           | 0.15            |                           |             |
| WIV1608-R22K | 0.22       | ±10%      | 0.5V/7.96M     | 10     | 7.96           | 0.15            |                           |             |
| WIV1608-R24K | 0.24       | ±10%      | 0.5V/7.96M     | 10     | 7.96           | 0.31            |                           |             |
| WIV1608-R27K | 0.27       | ±10%      | 0.5V/7.96M     | 10     | 7.96           | 0.20            |                           |             |
| WIV1608-R33K | 0.33       | ±10%      | 0.5V/7.96M     | 10     | 7.96           | 0.35            |                           |             |
| WIV1608-R39K | 0.39       | ±10%      | 0.5V/7.96M     | 10     | 7.96           | 0.39            |                           |             |
| WIV1608-R47K | 0.47       | ±10%      | 0.5V/7.96M     | 10     | 7.96           | 0.43            |                           |             |

| Part No | Inductance | Tolerance | Test Frequency | Q Min. | Test Frequency | Temperature Rise Current Max. | DC Resistance Max. | SRF Min. |
|---------|------------|-----------|----------------|--------|----------------|-------------------------------|--------------------|----------|
|         | 0.56       | ±10%      | 0.5V/7.96M     | 10     | 7.96           | 550                           | 0.47               | 525      |
|         | 0.68       | ±10%      | 0.5V/7.96M     | 10     | 7.96           | 470                           | 0.52               | 460      |
|         | 0.82       | ±10%      | 0.5V/7.96M     | 10     | 7.96           | 400                           | 0.69               | 410      |
|         | 1.0        | ±10%      | 0.5V/7.96M     | 10     | 7.96           | 400                           | 0.81               | 190      |
|         | 1.2        | ±10%      | 0.5V/7.96M     | 10     | 7.96           | 370                           | 0.87               | 160      |
|         | 1.5        | ±10%      | 0.5V/7.96M     | 10     | 7.96           | 350                           | 0.96               | 100      |
|         | 1.8        | ±10%      | 0.5V/7.96M     | 10     | 7.96           | 350                           | 1.10               | 80       |
|         | 2.2        | ±10%      | 0.5V/7.96M     | 10     | 7.96           | 320                           | 1.20               | 68       |
|         | 3.3        | ±10%      | 0.5V/7.96M     | 10     | 7.96           | 280                           | 1.50               | 42       |
|         | 3.9        | ±10%      | 0.5V/7.96M     | 10     | 7.96           | 280                           | 1.50               | 40       |
|         | 4.7        | ±10%      | 0.5V/7.96M     | 10     | 7.96           | 260                           | 2.10               | 34       |
|         | 5.6        | ±10%      | 0.5V/7.96M     | 10     | 7.96           | 240                           | 2.60               | 32       |
|         | 6.8        | ±10%      | 0.5V/7.96M     | 10     | 7.96           | 200                           | 3.10               | 31       |
|         | 8.2        | ±10%      | 0.5V/7.96M     | 10     |                | 190                           | 4.40               | 26       |
|         | 10         | ±10%      | 0.5V/2.52M     | 10     |                | 180                           | 4.80               | 25       |