

Features

- 0603 size
- Available in E12 Series
- High frequency
- Nickel barrier



This series is currently available but not recommended for new designs.

CI160808 Series - Multi-Layer Chip Inductors

Electrical Specifications

| Bourns Part No. | Inductance | | Q | Test Freq. | SRF MHz | DCR | I _{rms} |
|-----------------|------------|---------|----|------------|---------|------|------------------|
| | nH | Tol. % | | | | | |
| CI160808-1N0D | 1.0 | ±0.3 nH | 8 | 100 | 10000 | 0.05 | 300 |
| CI160808-1N2D | 1.2 | ±0.3 nH | 8 | 100 | 10000 | 0.05 | 300 |
| CI160808-1N5D | 1.5 | ±0.3 nH | 8 | 100 | 6000 | 0.10 | 300 |
| CI160808-1N8D | 1.8 | ±0.3 nH | 8 | 100 | 6000 | 0.10 | 300 |
| CI160808-2N2D | 2.2 | ±0.3 nH | 8 | 100 | 6000 | 0.10 | 300 |
| CI160808-2N7D | 2.7 | ±0.3 nH | 8 | 100 | 6000 | 0.10 | 300 |
| CI160808-3N3D | 3.3 | ±0.3 nH | 10 | 100 | 6000 | 0.12 | 300 |
| CI160808-3N9D | 3.9 | ±0.3 nH | 10 | 100 | 6000 | 0.14 | 300 |
| CI160808-4N7D | 4.7 | ±0.3 nH | 10 | 100 | 4000 | 0.16 | 300 |
| CI160808-5N6D | 5.6 | ±0.3 nH | 10 | 100 | 4000 | 0.18 | 300 |
| CI160808-6N8J | 6.8 | ±5 | 10 | 100 | 4000 | 0.22 | 300 |
| CI160808-8N2J | 8.2 | ±5 | 10 | 100 | 3500 | 0.24 | 300 |
| CI160808-10NJ | 10 | ±5 | 12 | 100 | 3400 | 0.26 | 300 |
| CI160808-12NJ | 12 | ±5 | 12 | 100 | 2600 | 0.28 | 300 |
| CI160808-15NJ | 15 | ±5 | 12 | 100 | 2300 | 0.32 | 300 |
| CI160808-18NJ | 18 | ±5 | 12 | 100 | 2000 | 0.25 | 300 |
| CI160808-22NJ | 22 | ±5 | 12 | 100 | 1600 | 0.40 | 300 |
| CI160808-27NJ | 27 | ±5 | 12 | 100 | 1400 | 0.45 | 300 |
| CI160808-33NJ | 33 | ±5 | 12 | 100 | 1200 | 0.55 | 300 |
| CI160808-39NJ | 39 | ±5 | 12 | 100 | 1100 | 0.60 | 300 |
| CI160808-47NJ | 47 | ±5 | 12 | 100 | 900 | 0.70 | 300 |
| CI160808-56NJ | 56 | ±5 | 12 | 100 | 900 | 0.75 | 300 |
| CI160808-68NJ | 68 | ±5 | 12 | 100 | 700 | 0.85 | 300 |
| CI160808-82NJ | 82 | ±5 | 12 | 100 | 600 | 0.95 | 300 |
| CI160808-R10J | 100 | ±5 | 12 | 100 | 600 | 1.00 | 300 |
| CI160808-R12J | 120 | ±5 | 8 | 50 | 500 | 1.20 | 300 |
| CI160808-R15J | 150 | ±5 | 8 | 50 | 500 | 1.20 | 300 |
| CI160808-R18J | 180 | ±5 | 8 | 50 | 400 | 1.30 | 300 |
| CI160808-R22J | 220 | ±5 | 8 | 50 | 400 | 1.50 | 300 |

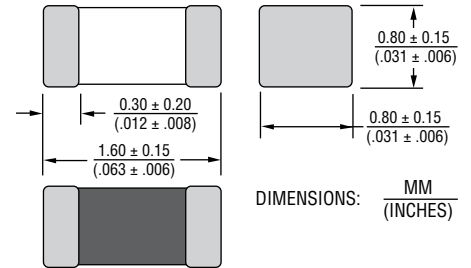
General Specifications

Temperature Rise 20 °C max. at rated current
 Operating Temperature -55 °C to +105 °C
 Storage Temperature.. -55 °C to +105 °C

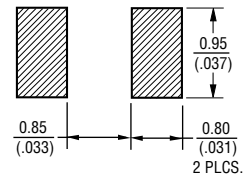
Materials

Base Material Ceramic
 Terminal..... Ag/Ni/Sn
 Packaging..... 4,000 pcs. per reel

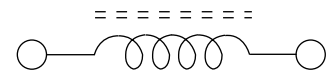
Product Dimensions



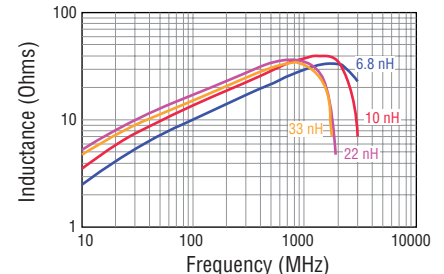
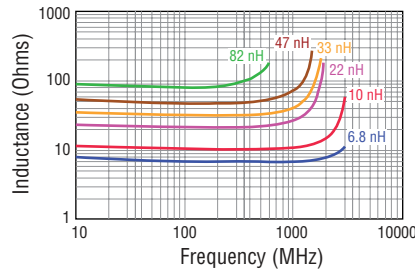
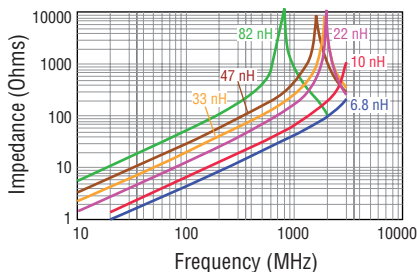
Recommended Layout



Schematic



Current Characteristics



*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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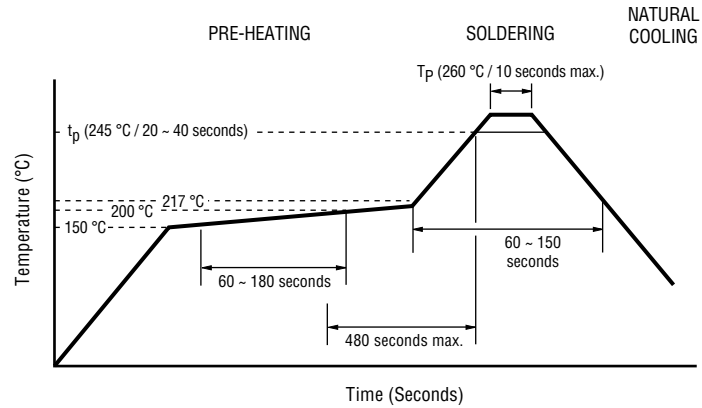
WARNING Cancer and Reproductive Harm

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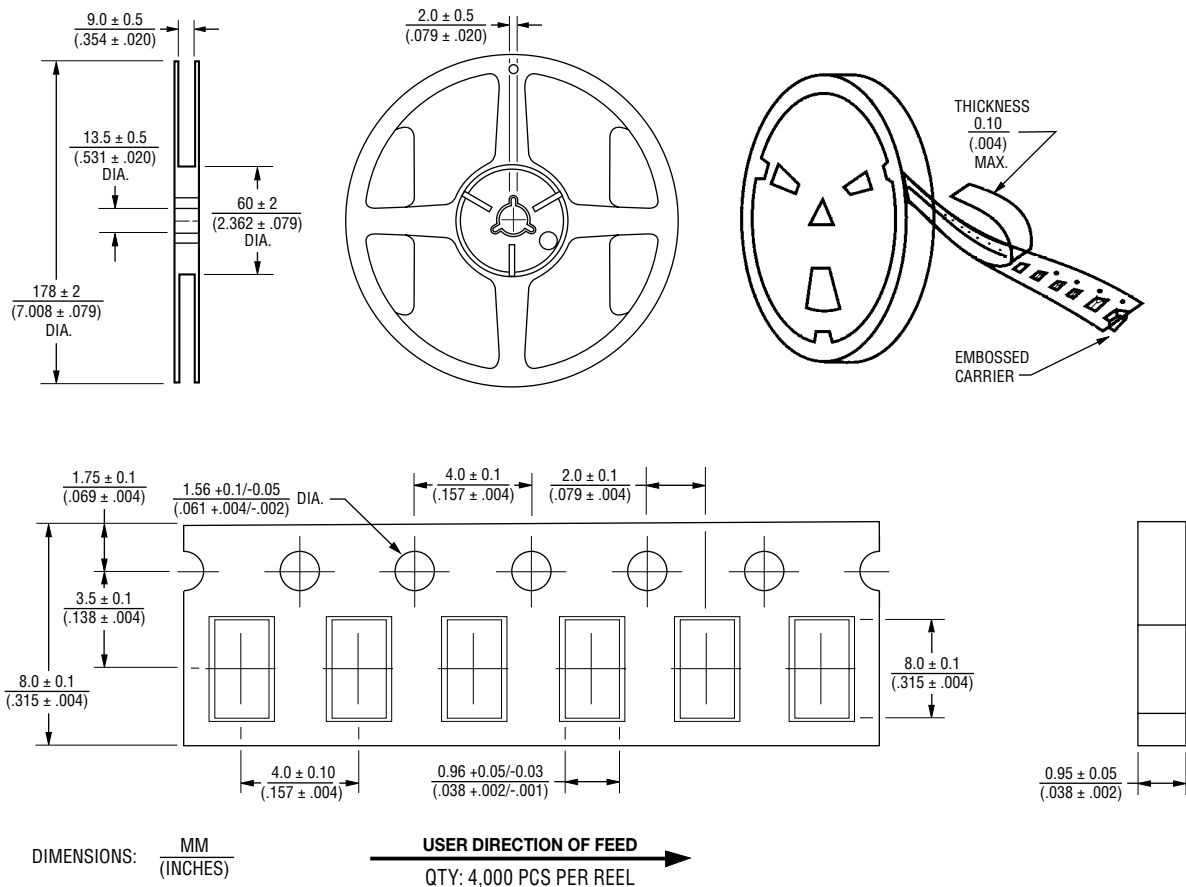
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BOURNS®

Solder Profile



Packaging Specifications



REV. 10/19

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