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

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

**Electrical Specifications**

<table>
<thead>
<tr>
<th>Bourns Part No.</th>
<th>Inductance nH</th>
<th>Q Tol. %</th>
<th>Test Freq. L,Q MHz</th>
<th>SRF MHz</th>
<th>DCR ohm max.</th>
<th>Irms mA max.</th>
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</thead>
<tbody>
<tr>
<td>CI160808-1N0D</td>
<td>1.0 ±0.3 nH</td>
<td>8</td>
<td>100</td>
<td>10000</td>
<td>0.05</td>
<td>300</td>
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<tr>
<td>CI160808-1N2D</td>
<td>1.2 ±0.3 nH</td>
<td>8</td>
<td>100</td>
<td>10000</td>
<td>0.05</td>
<td>300</td>
</tr>
<tr>
<td>CI160808-1N5D</td>
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<td>6000</td>
<td>0.10</td>
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<tr>
<td>CI160808-1N8D</td>
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<td>6000</td>
<td>0.10</td>
<td>300</td>
</tr>
<tr>
<td>CI160808-2N2D</td>
<td>2.2 ±0.3 nH</td>
<td>8</td>
<td>100</td>
<td>6000</td>
<td>0.10</td>
<td>300</td>
</tr>
<tr>
<td>CI160808-2N7D</td>
<td>2.7 ±0.3 nH</td>
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<td>100</td>
<td>6000</td>
<td>0.10</td>
<td>300</td>
</tr>
<tr>
<td>CI160808-3N3D</td>
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<td>100</td>
<td>6000</td>
<td>0.12</td>
<td>300</td>
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<tr>
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<td>100</td>
<td>4000</td>
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<tr>
<td>CI160808-5N6D</td>
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</tr>
<tr>
<td>CI160808-6N8J</td>
<td>6.8 ±5</td>
<td>12</td>
<td>100</td>
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<tr>
<td>CI160808-8N2J</td>
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<td>CI160808-12NJ</td>
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<tr>
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<td>CI160808-18NJ</td>
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<td>12</td>
<td>100</td>
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<td>CI160808-22NJ</td>
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<td>1100</td>
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</tr>
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<td>500</td>
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<td>CI160808-15RJ</td>
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<td>50</td>
<td>500</td>
<td>1.20</td>
<td>300</td>
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<td>50</td>
<td>400</td>
<td>1.30</td>
<td>300</td>
</tr>
<tr>
<td>CI160808-22RJ</td>
<td>220 ±5</td>
<td>8</td>
<td>50</td>
<td>400</td>
<td>1.50</td>
<td>300</td>
</tr>
</tbody>
</table>

**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

**Recommended Layout**

**Schematic**

Specifications are subject to change without notice.
Users should verify actual device performance in their specific applications.
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**CI160808 Series - Multi-Layer Chip Inductors**

### Solder Profile

**PRE-HEATING**
- $T_p$ (245 °C / 20 - 40 seconds)

**SOLDERING**
- $T_p$ (260 °C / 10 seconds max.)

**NATURAL COOLING**
- 60 - 150 seconds
- 60 - 180 seconds
- 480 seconds max.

### Packaging Specifications

#### DIMENSIONS: MM (INCHES)
- 9.0 ± 0.5
- 13.5 ± 0.5
- 178 ± 2
- 1.75 ± 0.1
- 3.5 ± 0.1
- 8.0 ± 0.5
- 1.56 ±0.05\(\text{INCHES}\)
- 4.0 ± 0.1
- 0.96 ±0.05\(\text{INCHES}\)
- 4.0 ± 0.1
- 0.95 ± 0.05

**USER DIRECTION OF FEED**
- QTY: 4,000 PCS PER REEL

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