



### Features

- 0603 size
- Magnetic shielding
- High Q characteristics
- Nickel barrier
- RoHS compliant\*

### Applications

- Prevention of electromagnetic interference to signals on the secondary side of electronic equipment

## CS160808 Series - Ferrite Multi-Layer Chip Inductors

### Electrical Specifications

| Bourns Part No. | Inductance |        | Q    | Test Freq. | SRF MHz |      | DCR     | I rms   |
|-----------------|------------|--------|------|------------|---------|------|---------|---------|
|                 | μH         | Tol. % | typ. | L,Q MHz    | min.    | typ. | mΩ max. | mA max. |
| CS160808-47NK   | 0.047      | ±10    | 45   | 50         | 260     | 320  | 150     | 200     |
| CS160808-68NK   | 0.068      | ±10    | 45   | 50         | 250     | 290  | 200     | 200     |
| CS160808-82NK   | 0.082      | ±10    | 45   | 50         | 245     | 280  | 250     | 200     |
| CS160808-R10K   | 0.10       | ±10    | 30   | 25         | 240     | 270  | 250     | 200     |
| CS160808-R12K   | 0.12       | ±10    | 30   | 25         | 205     | 260  | 300     | 200     |
| CS160808-R15K   | 0.15       | ±10    | 30   | 25         | 180     | 250  | 350     | 200     |
| CS160808-R18K   | 0.18       | ±10    | 30   | 25         | 165     | 220  | 400     | 200     |
| CS160808-R22K   | 0.22       | ±10    | 30   | 25         | 150     | 200  | 400     | 200     |
| CS160808-R27K   | 0.27       | ±10    | 30   | 25         | 136     | 190  | 500     | 200     |
| CS160808-R33K   | 0.33       | ±10    | 30   | 25         | 125     | 180  | 550     | 150     |
| CS160808-R39K   | 0.39       | ±10    | 30   | 25         | 110     | 170  | 600     | 150     |
| CS160808-R47K   | 0.47       | ±10    | 30   | 25         | 105     | 160  | 700     | 150     |
| CS160808-R56K   | 0.56       | ±10    | 30   | 25         | 95      | 150  | 900     | 150     |
| CS160808-R68K   | 0.68       | ±10    | 30   | 25         | 80      | 140  | 900     | 150     |
| CS160808-R82K   | 0.82       | ±10    | 30   | 25         | 75      | 130  | 1400    | 100     |
| CS160808-1R0K   | 1.0        | ±10    | 50   | 10         | 70      | 95   | 500     | 100     |
| CS160808-1R2K   | 1.2        | ±10    | 50   | 10         | 60      | 80   | 600     | 100     |
| CS160808-1R5K   | 1.5        | ±10    | 50   | 10         | 55      | 70   | 650     | 50      |
| CS160808-1R8K   | 1.8        | ±10    | 50   | 10         | 50      | 70   | 750     | 50      |
| CS160808-2R2K   | 2.2        | ±10    | 50   | 10         | 45      | 60   | 900     | 50      |
| CS160808-2R7K   | 2.7        | ±10    | 50   | 10         | 40      | 55   | 1000    | 50      |

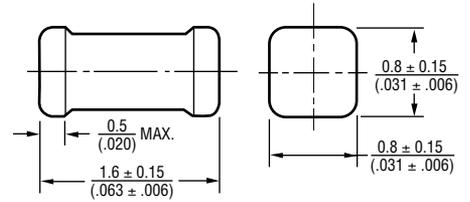
### General Specifications

Temperature Rise .....20 °C max. at rated current  
 Operating Temperature .....-55 °C to +125 °C  
 Storage Temperature .....-55 °C to +125 °C  
 Reflow Soldering ...230 °C, 50 sec. max.  
 Resistance to Soldering Heat .....260 °C, 10 seconds

### Materials

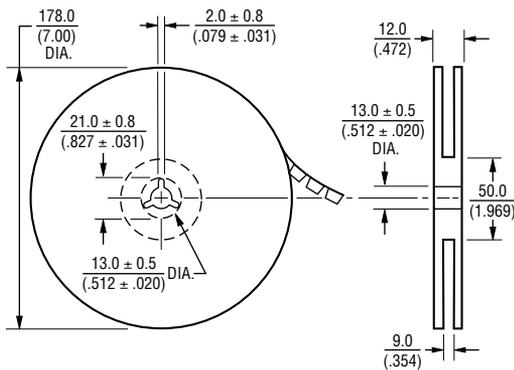
Base Material .....Ferrite  
 Terminal .....Ag/Ni/Sn  
 Packaging .....4,000 pcs. per reel

### Product Dimensions

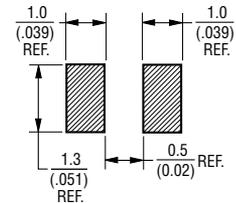


DIMENSIONS:  $\frac{\text{MM}}{\text{(INCHES)}}$

### Packaging Specifications



### Recommended Layout



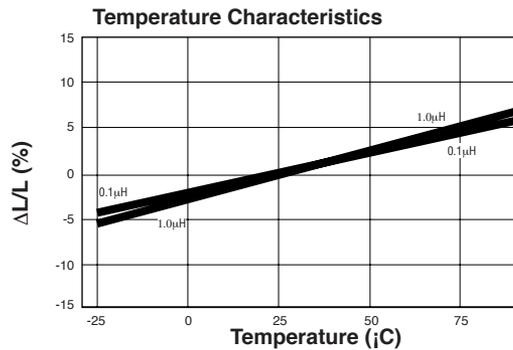
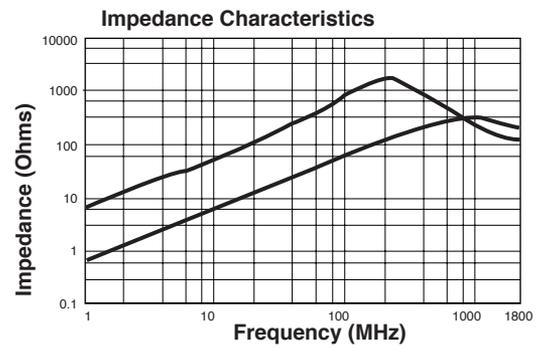
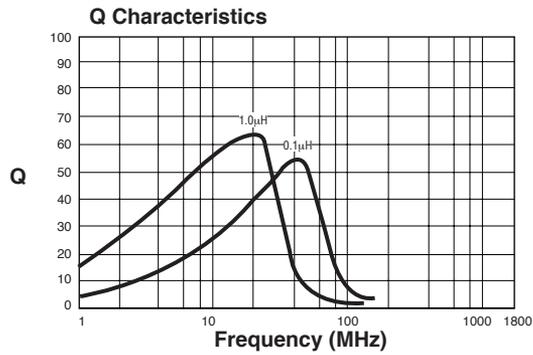
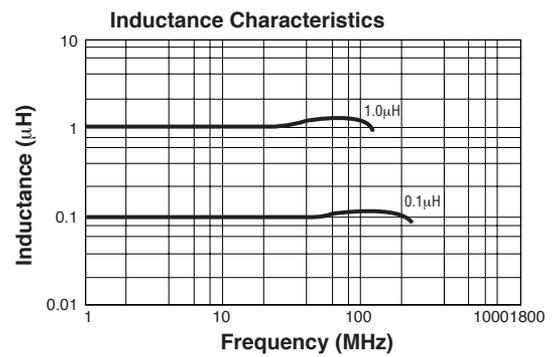
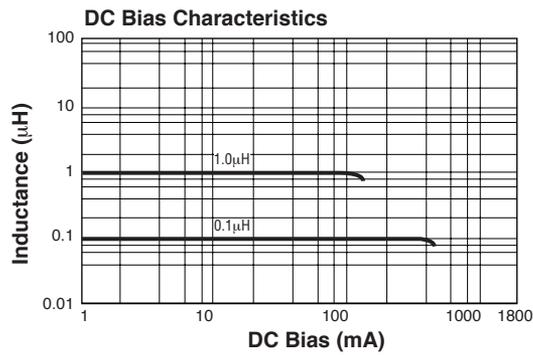
**WARNING Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)**

\* \*RoHS Directive 2002/95/EC Jan 27, 2003 including Annex.  
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# CS160808 Series - Ferrite Multi-Layer Chip Inductors



## Electrical Specifications



REV. 05/11

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