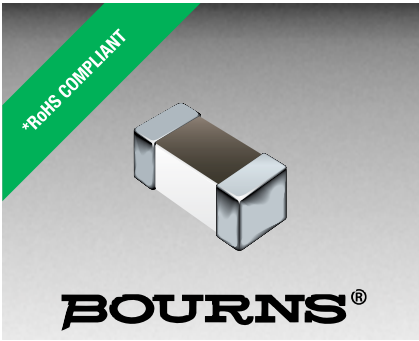




**THE DATASHEET OF  
CI160808-18NJ**





## 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	Irms
	nH	Tol. %	min.	L,Q MHz	min.	ohm max.	mA max.
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

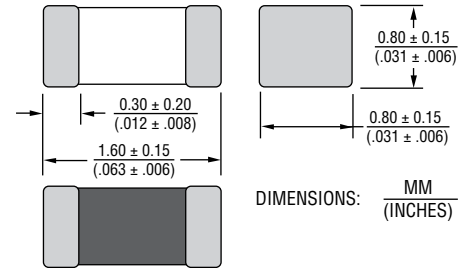
## General Specifications

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

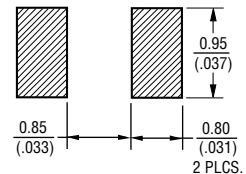
## Materials

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

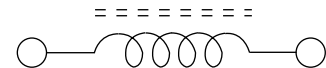
## Product Dimensions



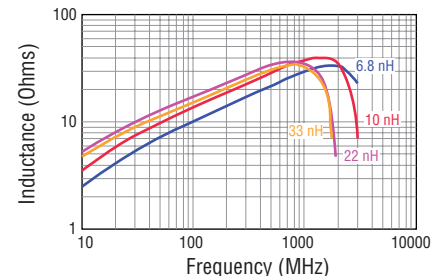
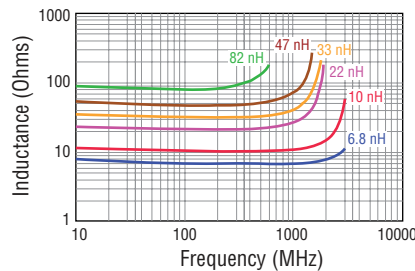
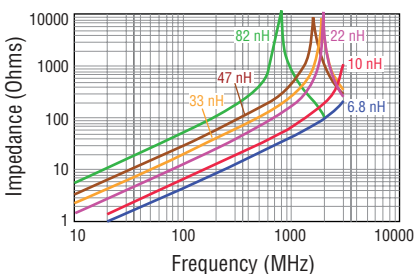
## Recommended Layout



## 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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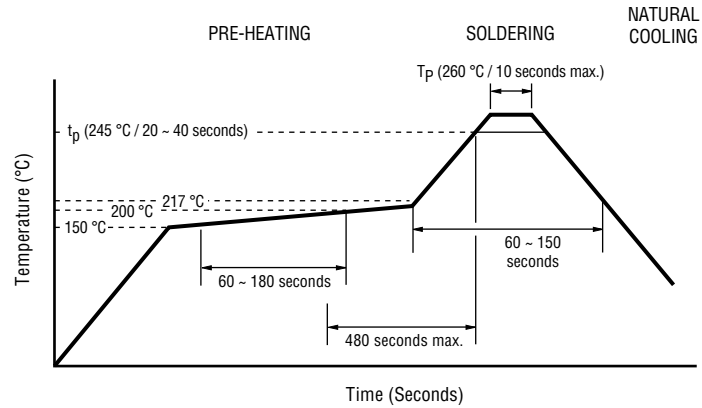
**WARNING Cancer and Reproductive Harm**

[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

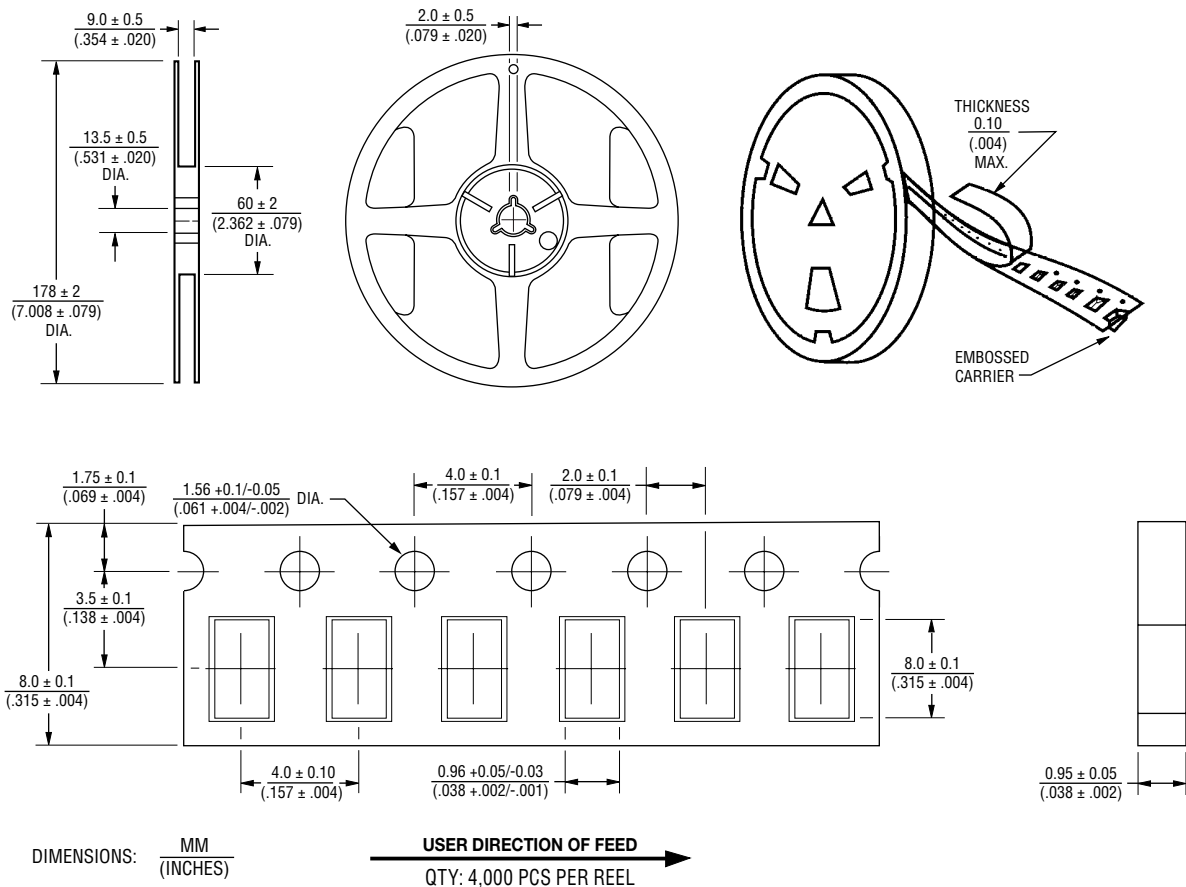
# CI160808 Series - Multi-Layer Chip Inductors

**BOURNS®**

## Solder Profile



## Packaging Specifications



REV. 10/19

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Users should verify actual device performance in their specific applications.

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