

Features

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



BOURNS®

CI160808 Series - Multi-Layer Chip Inductors

Electrical Specifications

	Indu	ctance	Q	Test Freq.	SRF MHz	DCR	Irms
Bourns Part No.	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

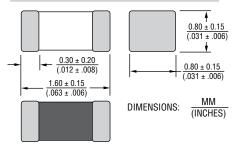
General Specifications

Temperature Rise Operating Temperature -55 °C to +105 °C Storage Temperature.. -55 °C to +105 °C

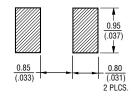
Materials

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

Product Dimensions

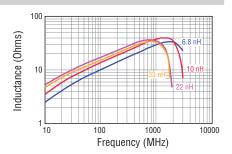


Recommended Layout



Schematic





Inductance (Ohms) 10 1∟ 10 10000 100 1000 10000 Frequency (MHz)

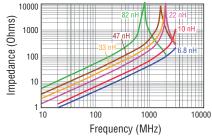
1000

100



*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. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

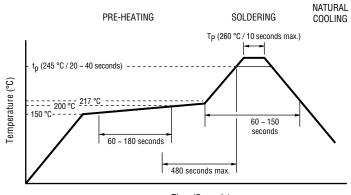
Current Characteristics



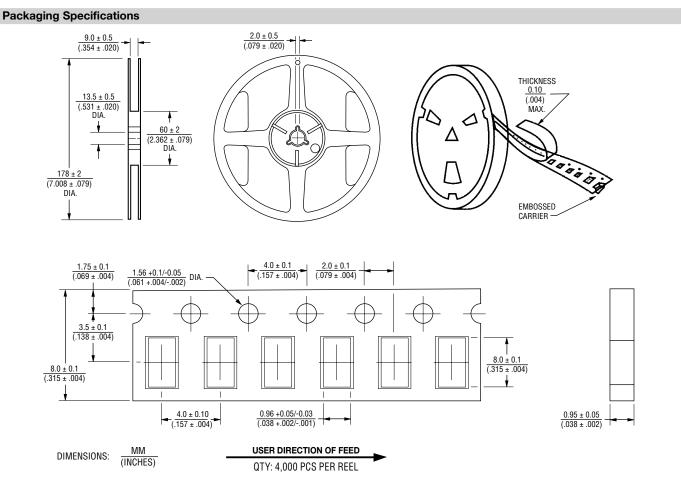
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Solder Profile



Time (Seconds)



REV. 10/19

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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