



## Features

- 0603 size
- Available in E12 series
- High Q - up to 80 typ.
- High operating temperature of 125 °C
- Small size of only 1.6 mm
- RoHS compliant\*

## Applications

- Mobile phones
- Cellular phones
- CTV, VCR, HIC, FDD

# CW160808 Series - High Q Chip Inductors

### Electrical Specifications

Bourns® Part No.	Inductance		Q	Test Freq. (MHz)		SRF (MHz)	RDC	I <sub>rms</sub> (mA)
	nH	Tol. %	Min.	L	Q	Min.	Ohms	Max.
CW160808-1N8M	1.8	±20	16	250	250	6000	0.04	700
CW160808-2N2D	2.2	±15	16	250	250	6000	0.08	700
CW160808-3N9J	3.9	±5	16	250	250	6000	0.08	700
CW160808-4N7J	4.7	±5	16	250	250	5800	0.10	700
CW160808-6N8J	6.8	±5	25	250	250	5800	0.11	700
CW160808-8N2J	8.2	±5	30	250	250	5000	0.11	700
CW160808-10NJ	10	±5	30	250	250	4800	0.13	700
CW160808-12NJ	12	±5	30	250	250	4000	0.13	700
CW160808-15NJ	15	±5	30	250	250	4000	0.17	700
CW160808-18NJ	18	±5	30	250	250	3100	0.17	700
CW160808-22NJ	22	±5	35	250	250	3000	0.19	700
CW160808-27NJ	27	±5	35	250	250	2800	0.22	600
CW160808-33NJ	33	±5	35	250	250	2300	0.22	600
CW160808-39NJ	39	±5	35	250	250	2200	0.25	600
CW160808-47NJ	47	±5	35	200	250	2100	0.28	600
CW160808-56NJ	56	±5	35	200	250	1900	0.31	600
CW160808-68NJ	68	±5	35	200	250	1700	0.34	600
CW160808-72NJ	72	±5	34	200	250	1700	0.49	400
CW160808-82NJ	82	±5	34	150	250	1700	0.54	400
CW160808-R10J	100	±5	34	150	250	1400	0.71	400
CW160808-R12J	120	±5	32	150	250	1350	0.79	300
CW160808-R15J	150	±5	28	150	150	1300	0.92	280
CW160808-R18J	180	±5	25	100	100	990	1.25	240
CW160808-R22J	220	±5	25	100	100	990	1.90	200
CW160808-R27J	270	±5	25	100	100	990	2.30	170

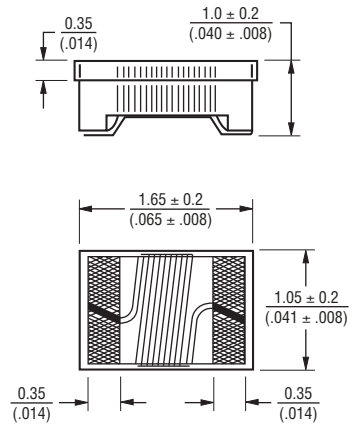
### General Specifications

Temperature Rise ..... 20 °C max. at rated current  
 Operating Temperature ..... -40 °C to +125 °C  
 Storage Temperature ..... -40 °C to +125 °C  
 Reflow Soldering .. 230 °C, 50 sec. max.  
 Resistance to Soldering Heat ..... +260 °C, 10 seconds

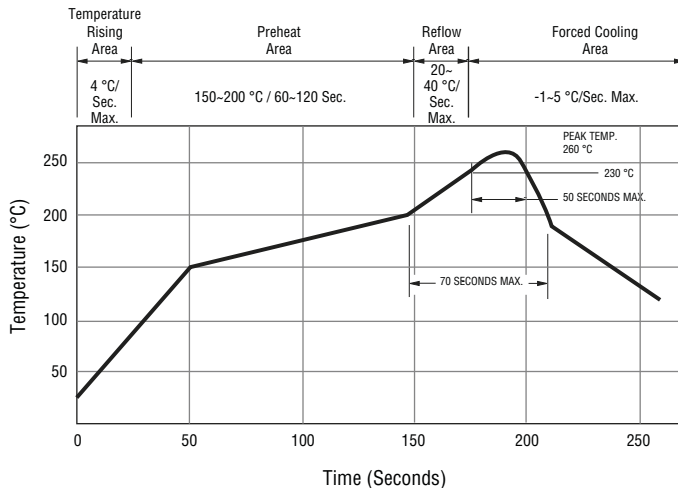
### Materials

Core Material ..... Alumina (1CC150707-302291)  
 Wire ..... Enameled copper (1W1E180)  
 Terminal ..... Mo/Mn+Ni+Au  
 Encapsulate ..... Epoxy (1EAS-UV300)  
 Packaging ..... 3,000 pcs. per reel

### Product Dimensions



### Solder Profile



### Recommended Layout



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

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