

Features

- 0805 size
- Available in E12 series
- High Q up to 80 typ.
- High operating temperature of 125 °C
- Small size of only 2.0 mm
- RoHS compliant*

Applications

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

CW201212 Series - High Q Chip Inductors

Electrical Specifications

Bourns® Part No.	Inductance		Q	Test Freq. (MHz)		SRF (MHz)	RDC (Ohms)		I rms (mA)
	nH	Tol. %		L	Q		Min.	Max.	
CW201212-2N2J	2.2	±5	50	250	1000	6000	0.06		600
CW201212-2N7J	2.7	±5	35	250	1000	6000	0.08		600
CW201212-2N8J	2.8	±5	32	250	1000	6000	0.06		800
CW201212-3N3J	3.3	±5	30	250	1500	6000	0.08		600
CW201212-3N9J	3.9	±5	60	250	1000	6000	0.06		600
CW201212-4N7J	4.7	±5	60	250	1000	5800	0.06		600
CW201212-5N6J	5.6	±5	60	250	1000	5800	0.08		600
CW201212-6N8J	6.8	±5	60	250	1000	5800	0.06		600
CW201212-8N2J	8.2	±5	60	250	1000	5500	0.06		600
CW201212-10NJ	10	±5	60	250	500	4800	0.08		600
CW201212-12NJ	12	±5	60	250	500	4100	0.08		600
CW201212-15NJ	15	±5	60	250	500	3600	0.08		600
CW201212-18NJ	18	±5	60	250	500	3400	0.08		600
CW201212-22NJ	22	±5	60	250	500	3300	0.10		600
CW201212-27NJ	27	±5	60	250	500	2600	0.12		600
CW201212-33NJ	33	±5	60	250	500	2400	0.15		500
CW201212-39NJ	39	±5	60	250	500	2100	0.18		500
CW201212-47NJ	47	±5	60	200	500	1700	0.15		500
CW201212-56NJ	56	±5	60	200	500	1600	0.25		500
CW201212-68NJ	68	±5	60	200	500	1450	0.27		500
CW201212-82NJ	82	±5	60	150	500	1350	0.32		500
CW201212-R10J	100	±5	60	150	500	1200	0.43		400
CW201212-R12J	120	±5	50	150	250	1100	0.48		400
CW201212-R15J	150	±5	50	100	250	950	0.67		400
CW201212-R18J	180	±5	50	100	250	900	0.85		350
CW201212-R22J	220	±5	50	100	250	860	1.10		300
CW201212-R27J	270	±5	45	100	250	850	1.46		250
CW201212-R33J	330	±5	45	100	250	800	1.65		200
CW201212-R39J	390	±5	45	100	250	780	2.20		170
CW201212-R47J	470	±5	33	50	100	375	1.72		250
CW201212-R56J	560	±5	23	25	50	340	1.90		230
CW201212-R68J	680	±5	23	25	50	270	2.05		190
CW201212-R82J	820	±5	23	25	50	230	2.30		180
CW201212-R91J	910	±5	22	25	50	220	2.50		150

Note: 2 % tolerance available for inductance ranges of 12 nH and above.
Replace "J" with "G".

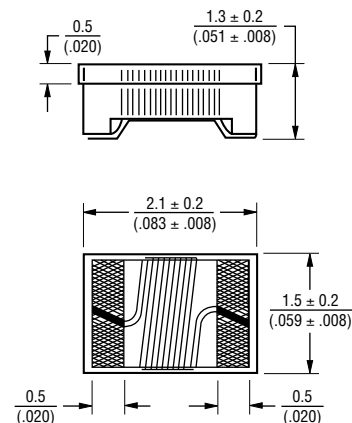
General Specifications

Temperature Rise 40 °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, 5 seconds
Moisture Sensitivity Level 2
ESD Classification (HBM)..... N/A

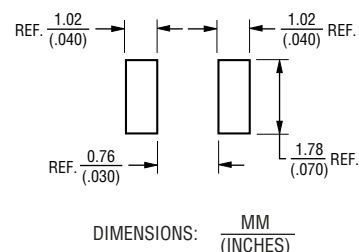
Materials

Core Material
-2N2J through -R39J.....Ceramic
-R47J through -R91J.....Ferrite
Wire Enameled copper (1W1E180)
Terminal Mo/Mn+Ni+Au
Packaging 2,000 pcs. per reel

Product Dimensions



Recommended Layout



WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

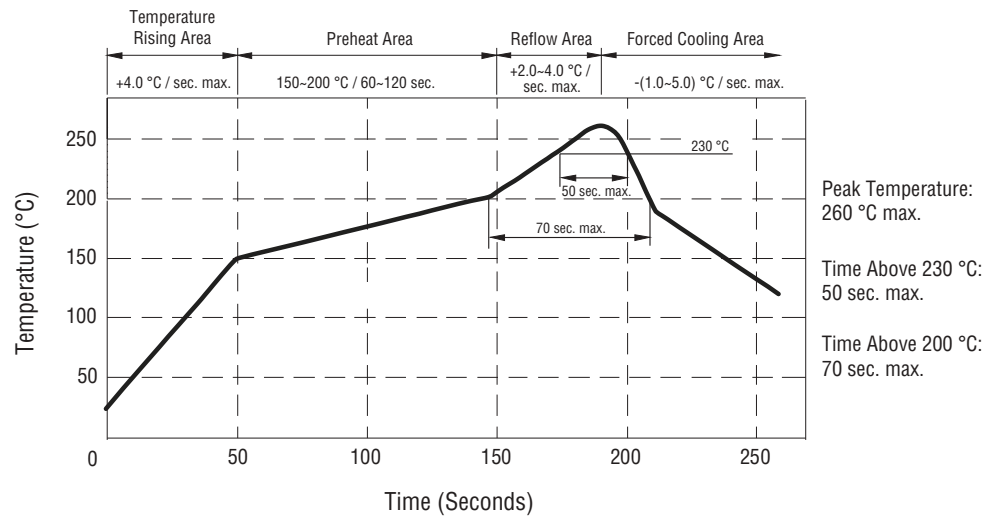
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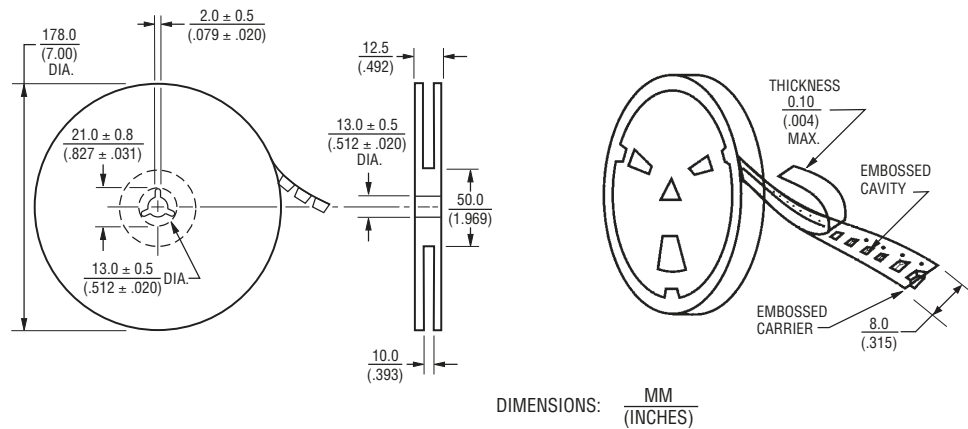
CW201212 Series - High Q Chip Inductors

BOURNS®

Soldering Profile



Packaging Specifications



REV. 05/18

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Bourns:

<u>CW201212-12NJ</u>	<u>CW201212-18NJ</u>	<u>CW201212-22NG</u>	<u>CW201212-27NJ</u>	<u>CW201212-39NG</u>	<u>CW201212-39NJ</u>
<u>CW201212-3N3J</u>	<u>CW201212-47NG</u>	<u>CW201212-56NJ</u>	<u>CW201212-5N6J</u>	<u>CW201212-6N8J</u>	<u>CW201212-82NJ</u>
<u>CW201212-8N2J</u>	<u>CW201212-LAB1</u>	<u>CW201212-R12J</u>	<u>CW201212-R18J</u>	<u>CW201212-R27J</u>	<u>CW201212-R39J</u>
<u>CW201212-R56J</u>	<u>CW201212-R68J</u>	<u>CW201212-R82J</u>	<u>CW201212-R91J</u>	<u>CW201212-33NJ</u>	<u>CW201212-22NJ</u>
<u>CW201212-R10J</u>	<u>CW201212-R33J</u>	<u>CW201212-10NJ</u>	<u>CW201212-1R0G</u>	<u>CW201212-27NG</u>	<u>CW201212-82NG</u>
<u>CW201212-R12G</u>	<u>CW201212-2N2K</u>	<u>CW201212-4N7K</u>	<u>CW201212-2N2J</u>	<u>CW201212-R15J</u>	<u>CW201212-47NJ</u>
<u>CW201212-68NJ</u>	<u>CW201212-15NJ</u>	<u>CW201212-R47J</u>	<u>CW201212-4N7J</u>	<u>CW201212-R22J</u>	<u>CW201212-R75J</u>
<u>CW201212-2N7J</u>	<u>CW201212-2N8J</u>	<u>CW201212-R39G</u>	<u>CW201212-R22G</u>	<u>CW201212-78NJ</u>	<u>CW201212-3N9J</u>