



Features

- 0805 size
- Magnetic shielding
- Height as low as 0.85 mm
- Nickel barrier
- RoHS compliant*

Applications

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

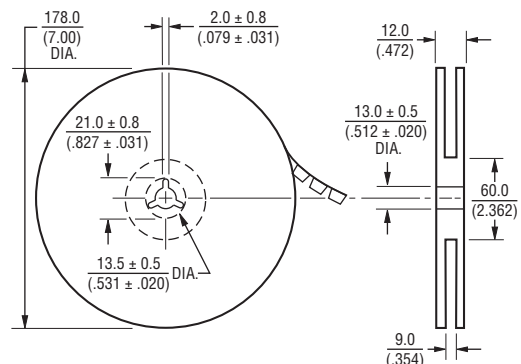
CV201210 Series - Ferrite Multi-Layer Chip Inductors

Electrical Specifications

Bourns® Part No.	Inductance		Q	Test Freq. (MHz)	SRF (MHz)	DCR (mΩ)	I _{rms} (mA)
	μH	Tol. %					
CV201210-47NK	0.047	±10	15	50*	320	200	300
CV201210-68NK	0.068	±10	15	50	280	200	300
CV201210-82NK	0.082	±10	15	50	255	200	300
CV201210-R10K	0.10	±10	20	25	235	300	250
CV201210-R12K	0.12	±10	20	25	220	300	250
CV201210-R15K	0.15	±10	20	25	200	400	250
CV201210-R18K	0.18	±10	20	25	185	400	250
CV201210-R22K	0.22	±10	20	25	170	500	250
CV201210-R27K	0.27	±10	20	25	150	500	250
CV201210-R33K	0.33	±10	20	25	145	550	250
CV201210-R39K	0.39	±10	25	25	135	650	200
CV201210-R47K	0.47	±10	25	25	125	650	200
CV201210-R56K	0.56	±10	25	25	115	750	150
CV201210-R68K	0.68	±10	25	25	105	800	150
CV201210-R82K	0.82	±10	25	25	100	1000	150
CV201210-1R0K	1.0	±10	45	10	75	400	50
CV201210-1R2K	1.2	±10	45	10	65	500	50
CV201210-1R5K	1.5	±10	45	10	60	500	50
CV201210-1R8K	1.8	±10	45	10	55	600	50
CV201210-2R2K	2.2	±10	45	10	50	650	30
CV201210-2R7K	2.7	±10	45	10	45	750	30
CV201210-3R3K	3.3	±10	45	10	41	800	30
CV201210-3R9K	3.9	±10	45	10	38	900	30
CV201210-4R7K	4.7	±10	45	10	35	1000	30
CV201210-5R6K	5.6	±10	45	4	32	900	15
CV201210-6R8K	6.8	±10	45	4	29	1000	15
CV201210-8R2K	8.2	±10	45	4	26	1100	15
CV201210-100K	10	±10	45	2	24	1150	15
CV201210-120K	12	±10	45	2	22	1250	5
CV201210-150K	15	±10	30	1	19	800	5
CV201210-180K	18	±10	30	1	18	900	5
CV201210-220K	22	±10	30	1	16	1100	5
CV201210-270K	27	±10	30	1	14	1150	5
CV201210-330K	33	±10	30	0.4	13	1250	5

*Test Frequency for L (inductance) of CV201210-47NK is 10 MHz.

Packaging Specifications



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

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

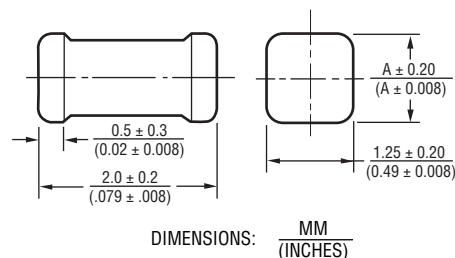
General Specifications

Inductance Test Voltage60 mV
 Temperature Rise30 °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
 0.85 mm Product Height4,000 pcs. per reel
 1.25 mm Product Height2,000 pcs. per reel

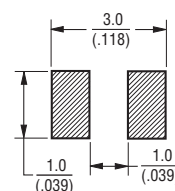
Product Dimensions



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

Model	Dim. A
CV201210-47NK through CV201210-R39K	0.85 (0.033)
CV201210-R47K through CV201210-R82K	1.25 (0.050)
CV201210-1R0K through CV201210-2R2K	0.85 (0.033)
CV201210-2R7K through CV201210-330K	1.25 (0.050)

Recommended Layout



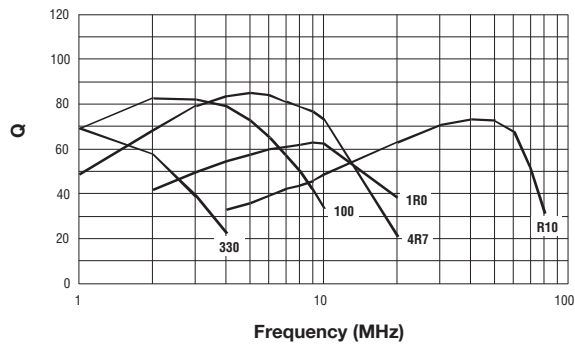
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

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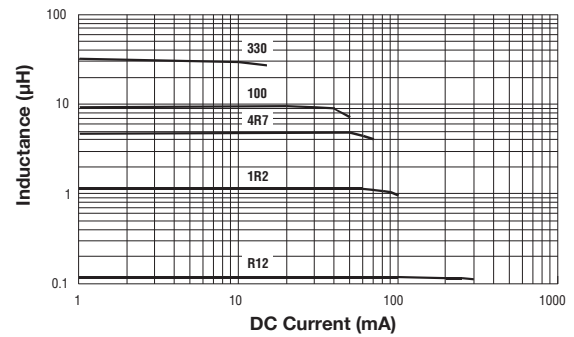
BOURNS®

Electrical Specifications

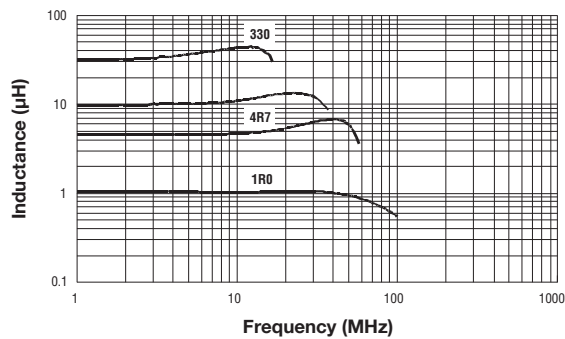
Q Characteristics



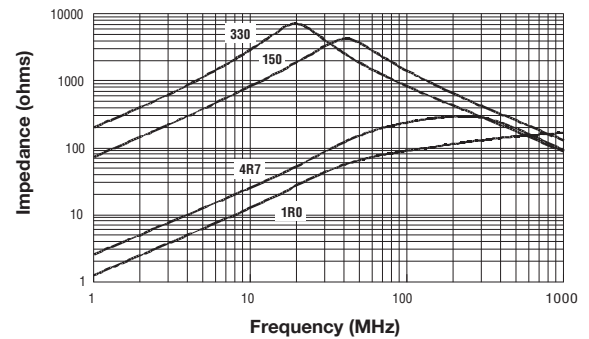
DC Bias Characteristics



Inductance Characteristics



Impedance Characteristics



REV. 12/14

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