

## Features

- Formerly J.W. Miller® model
- Current rating up to 20 A
- Inductance range: 3.35  $\mu$ H to 1000  $\mu$ H
- RoHS compliant\*

## Applications

- EMI filters
- Output chokes
- Smoothing coils

# 5200 Series - Hash Choke

### Electrical Specifications

Part Number	Inductance ( $\mu$ H)	Tol.	Test Freq.	DCR ( $\Omega$ ) Max.	I dc (A)	Lead Wire Size (AWG)	Figure	Diameter Max.
5218-RC	3.35	$\pm 20$ %	7.96 MHz	0.010	20	12	A	$\frac{15.24}{(0.60)}$
5219-RC	4.9	$\pm 20$ %	7.96 MHz	0.016	15	14	A	$\frac{15.24}{(0.60)}$
5220-RC	8.8	$\pm 20$ %	7.96 MHz	0.021	10	16	A	$\frac{14.22}{(0.56)}$
5230-RC	4.0	$\pm 20$ %	7.96 MHz	0.012	8.0	20	B	$\frac{9.65}{(0.38)}$
5240-RC	40	$\pm 20$ %	1.0 KHz	0.082	3.0	20	D	$\frac{7.87}{(0.31)}$
5248-RC	68	$\pm 20$ %	1.0 KHz	0.054	5.0	20	C	$\frac{14.22}{(0.56)}$
5250-RC	100	$\pm 20$ %	1.0 KHz	0.216	2.0	20	E	$\frac{9.65}{(0.38)}$
5252-RC	125	$\pm 20$ %	1.0 KHz	0.08	3.5	20	C	$\frac{12.70}{(0.50)}$
5254-RC	250	$\pm 20$ %	1.0 KHz	0.17	2.5	20	C	$\frac{11.18}{(0.44)}$
5256-RC	500	$\pm 20$ %	1.0 KHz	0.26	2.0	20	C	$\frac{14.22}{(0.56)}$
5258-RC	1000	$\pm 20$ %	1.0 KHz	0.55	1.0	20	C	$\frac{12.70}{(0.50)}$

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

### General Specifications

Rated Current..... Inductance drop 10 %  
or 35 °C temperature rise at I dc  
Operating Temperature  
.....-55 °C to +105 °C  
Storage Temperature  
.....-55 °C to +105 °C  
Moisture Sensitivity Level..... 1  
ESD Classification (HBM)..... N/A

### Materials

Core Material  
5218-RC through 5220-RC ..... Iron  
5230-RC through 5258-RC ..... Ferrite  
Wire ..... Enameled copper  
Terminal Coating..... Sn

### Marking

..... Marking on label on bag only

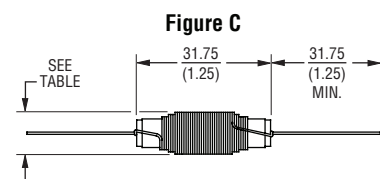
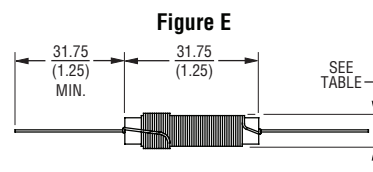
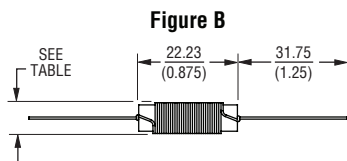
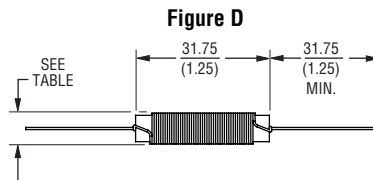
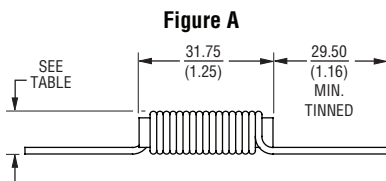
### Packaging

5218-RC through 5220-RC  
..... 64 pcs. per bag  
5230-RC through 5258-RC  
..... 50 pcs. per bag

### Electrical Schematic



### Product Dimensions



\*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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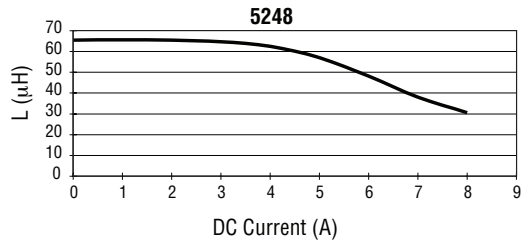
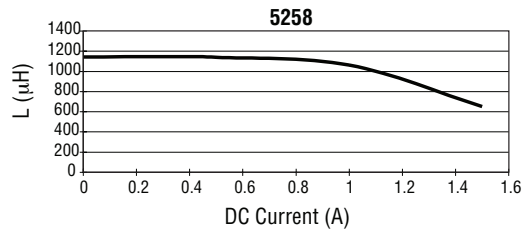
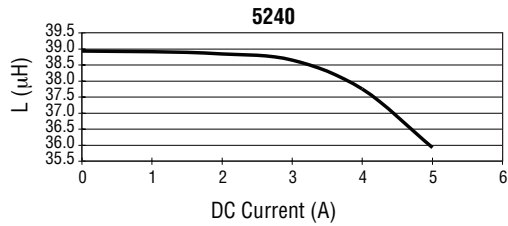
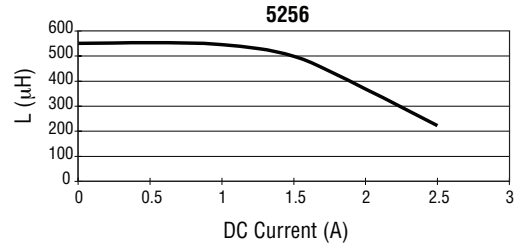
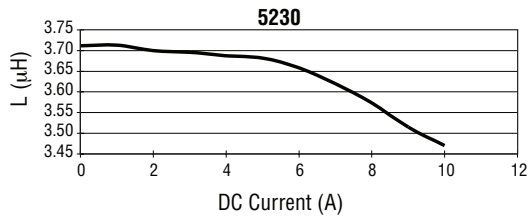
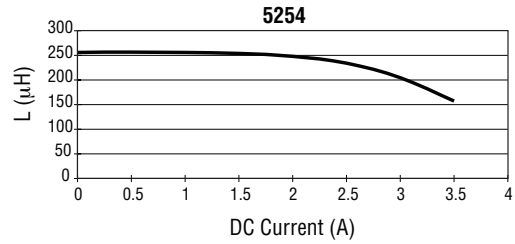
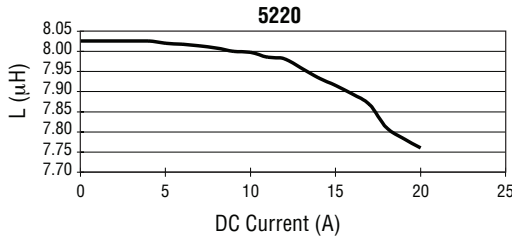
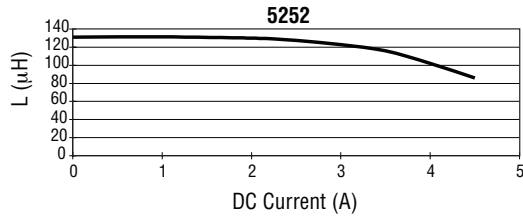
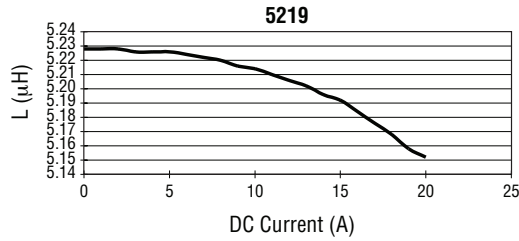
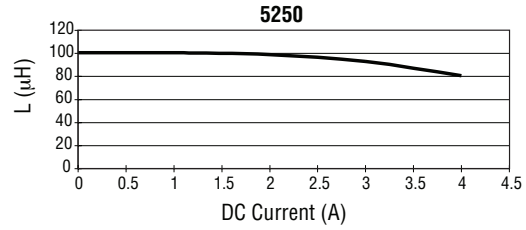
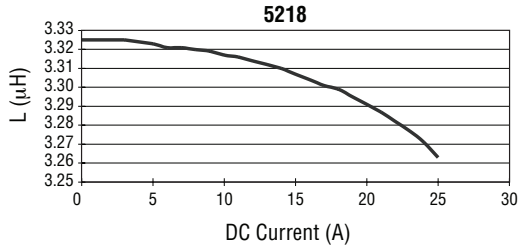


**WARNING Cancer and Reproductive Harm**  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

# 5200 Series - Hash Choke

**BOURNS®**

## L vs I Graphs



REV. 01/18

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