

## 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.	SRF (MHz) Typ.	DCR ( $\Omega$ ) Max.	I dc (A)	Lead Wire Size (AWG)	Figure	Diameter Max.
5218-RC	3.35	$\pm 20\%$	7.96 MHz	107	0.010	20	12	A	$\frac{15.24}{(0.60)}$
5219-RC	4.9	$\pm 20\%$	7.96 MHz	95	0.016	15	14	A	$\frac{15.24}{(0.60)}$
5220-RC	8.8	$\pm 20\%$	7.96 MHz	64	0.021	10	16	A	$\frac{14.22}{(0.56)}$
5230-RC	4.0	$\pm 20\%$	7.96 MHz	165	0.012	8.0	20	B	$\frac{9.65}{(0.38)}$
5240-RC	40	$\pm 20\%$	1.0 KHz	145	0.082	3.0	20	D	$\frac{7.87}{(0.31)}$
5248-RC	68	$\pm 20\%$	1.0 KHz	4.5	0.054	5.0	20	C	$\frac{14.22}{(0.56)}$
5250-RC	100	$\pm 20\%$	1.0 KHz	28.5	0.216	2.0	20	E	$\frac{9.65}{(0.38)}$
5252-RC	125	$\pm 20\%$	1.0 KHz	2.25	0.08	3.5	20	C	$\frac{12.70}{(0.50)}$
5254-RC	250	$\pm 20\%$	1.0 KHz	1.30	0.17	2.5	20	C	$\frac{11.18}{(0.44)}$
5256-RC	500	$\pm 20\%$	1.0 KHz	0.99	0.26	2.0	20	C	$\frac{14.22}{(0.56)}$
5258-RC	1000	$\pm 20\%$	1.0 KHz	0.65	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

### Materials

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

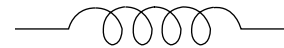
### Marking

..... Marking on label on bag only

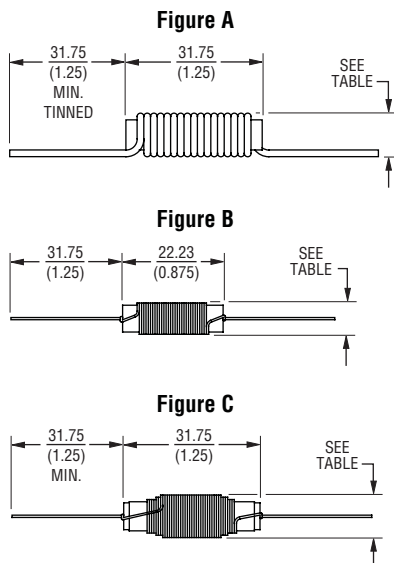
### Packaging

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

### Electrical Schematic



### Product Dimensions

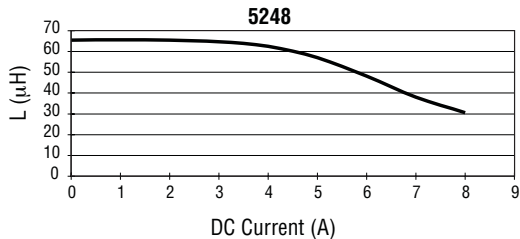
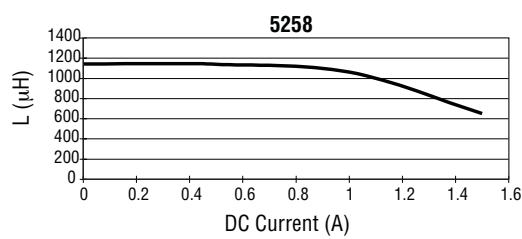
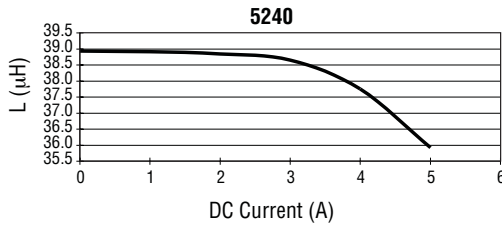
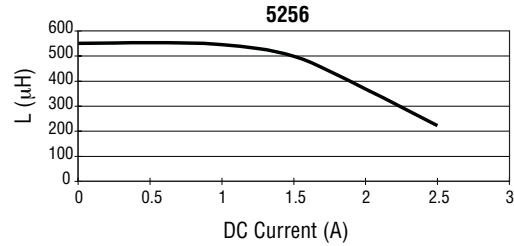
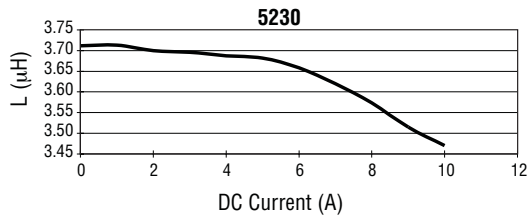
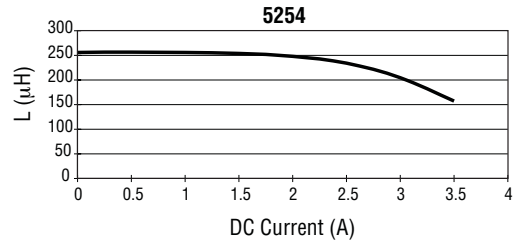
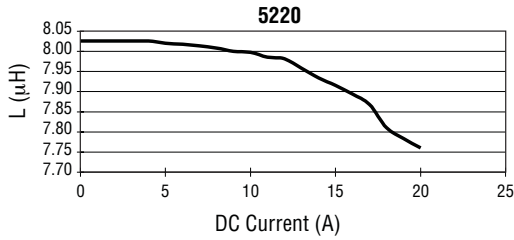
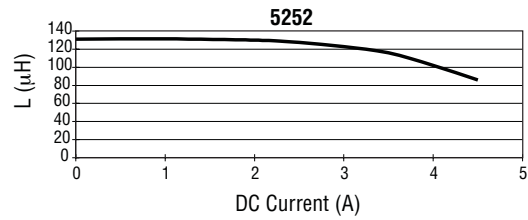
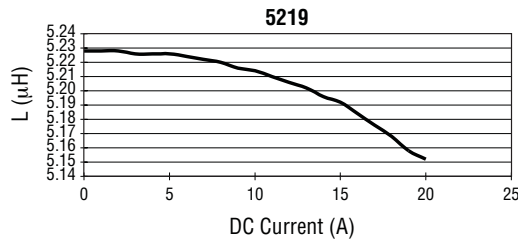
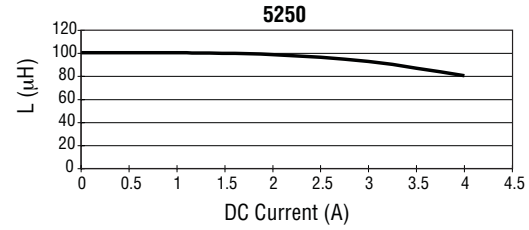
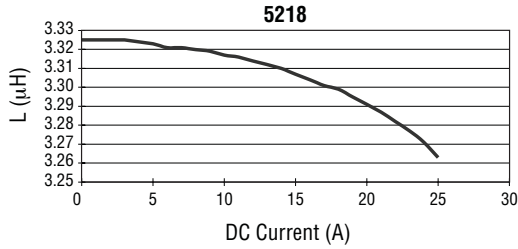


\*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.  
Specifications are subject to change without notice.  
Customers should verify actual device performance in their specific applications

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## L vs I Graphs



REV. 02/09

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