

Features

- Formerly J.W. Miller[®] model
- Current rating up to 20 A
- Inductance range: 3.35 µH to 1000 µH
- RoHS compliant*

Applications

- EMI filters
- Output chokes
- Smooting coils

5200 Series - Hash Choke

Electrical Specifications

Part Number	Inductance (µH)	Tol.	Test Freq.	DCR (Ω) Max.	l dc (A)	Lead Wire Size (AWG)	Figure	Diameter Max.
5218-RC	3.35	±20 %	7.96 MHz	0.010	20	12	А	<u>15.24</u> (0.60)
5219-RC	4.9	±20 %	7.96 MHz	0.016	15	14	А	<u>15.24</u> (0.60)
5220-RC	8.8	±20 %	7.96 MHz	0.021	10	16	А	<u>14.22</u> (0.56)
5230-RC	4.0	±20 %	7.96 MHz	0.012	8.0	20	В	<u>9.65</u> (0.38)
5240-RC	40	±20 %	1.0 KHz	0.082	3.0	20	D	<u>7.87</u> (0.31)
5248-RC	68	±20 %	1.0 KHz	0.054	5.0	20	С	<u>14.22</u> (0.56)
5250-RC	100	±20 %	1.0 KHz	0.216	2.0	20	Е	<u>9.65</u> (0.38)
5252-RC	125	±20 %	1.0 KHz	0.08	3.5	20	С	<u>12.70</u> (0.50)
5254-RC	250	±20 %	1.0 KHz	0.17	2.5	20	С	<u>11.18</u> (0.44)
5256-RC	500	±20 %	1.0 KHz	0.26	2.0	20	С	<u>14.22</u> (0.56)
5258-RC	1000	±20 %	1.0 KHz	0.55	1.0	20	С	<u>12.70</u> (0.50)

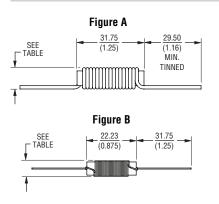
General Specifications

Rated CurrentInductance drop 10 % or 35 °C temperature rise at I dc
Operating Temperature
Storage Temperature
55 °C to +105 °C Moisture Sensitivity Level1 ESD Classification (HBM)N/A
Materials
Core Material 5218-RC through 5220-RCIron 5230-RC through 5258-RCFerrite WireEnameled copper Terminal CoatingSn
Marking
Marking on label on bag only
Packaging
5218-RC through 5220-RC
5230-RC through 5258-RC
Electrical Schematic

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MM DIMENSIONS: (INCHES)

Product Dimensions



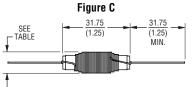


Figure D 31.75 31.75 SEE TABLE (1.25) MIN. Figure E 31.75 (1.25) 31.75 (1.25) SEE TABLE MIN.

> *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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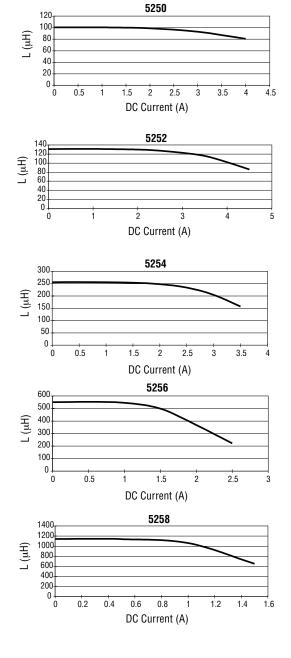
5200 Series - Hash Choke

L vs I Graphs

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5218 3.33 3.32 3.31 3.30 3.29 3.28 3.27 3.26 L (μH) 3.25 15 10 20 5 25 30 0 DC Current (A) 5219 L (μH) 15 14 10 15 20 5 25 0 DC Current (A) 5220 8.05 8.00 7.95 7.90 7.85 Γ (hμ) 7.80 7.75 7.70 10 0 5 15 20 25 DC Current (A) 5230 3.75 3.70 3.65 L (μH) 3.60 3.55 3.50 3.45 4 6 8 10 Ó 2 12 DC Current (A) 5240 39.5 -39.0 -38.5 -38.0 -37.5 -37.0 -36.5 -36.0 -35.5 -L (μH) Ó 2 3 4 5 1 DC Current (A) 5248 70 60 50 40 30 20 (Hη) J 10 0 4 0 2 3 5 6 7 8 1 9

DC Current (A)



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