

BOURNS®

Features

- Formerly J.W. Miller® model
- High Q value
- Inductance range: 270 μ H to 1000 μ H
- RoHS compliant*

Applications

- Filters
- Output chokes

9220 Series Molded Axial Inductor

Electrical Specifications

Bourns Part No.	Inductance		Q Min.	Test Frequency (MHz)	SRF (MHz) Min.	DCR (Ω) Max.	Idc (mA)
	(μ H)	Tol. (%)					
9220-00-RC	270	± 5	65	0.79	5.6	8.2	110
9220-02-RC	300	± 5	65	0.79	5.3	8.7	107
9220-04-RC	330	± 5	65	0.79	5.0	9.1	105
9220-06-RC	360	± 5	65	0.79	4.7	9.6	102
9220-08-RC	390	± 5	65	0.79	4.5	10.0	100
9220-10-RC	430	± 5	65	0.79	4.3	10.6	97
9220-12-RC	470	± 5	65	0.79	4.0	11.1	95
9220-14-RC	500	± 5	65	0.79	3.8	11.6	93
9220-15-RC	510	± 5	65	0.79	3.8	11.6	92
9220-16-RC	560	± 5	65	0.79	3.6	12.3	91
9220-18-RC	620	± 5	60	0.79	3.5	13.0	88
9220-20-RC	680	± 5	60	0.79	3.4	13.7	85
9220-22-RC	750	± 5	60	0.79	3.3	14.4	83
9220-24-RC	820	± 5	60	0.79	3.1	15.1	81
9220-26-RC	910	± 5	60	0.79	2.9	15.8	79
9220-28-RC	1000	± 5	60	0.79	2.8	16.5	78

General Specifications

Temperature Rise 35 °C at Idc
 Operating Temperature -55 °C to +105 °C
 Storage Temperature -55 °C to +105 °C
 Dielectric Strength 1000 Vrms

Materials

Core Ferrite
 Wire Enameled copper
 Terminal Coating Sn
 Packaging
 Standard 1000 pcs. per bag
 Optional 2500 pcs. per 14-inch reel

How to Order

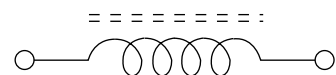
9220 - 02 - - RC

Model _____
 Value Code _____
 Two-digit code from table
 (Example: -02 = 300 μ H)
 Packaging Code _____
 Blank = 1000 pcs./bag
 TR = 2500 pcs./14-inch reel
 Compliance Code _____
 RC = RoHS compliant*

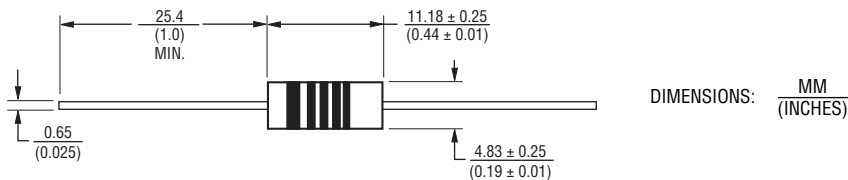
Examples:

- 9220-00-RC = 270 μ H packaged 1000 pcs./bag.
- 9220-16-TR-RC = 560 μ H packaged 2500 pcs./14-inch reel.

Electrical Schematic



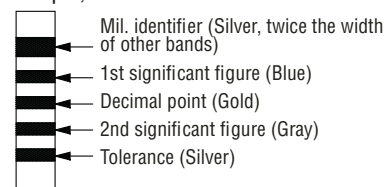
Product Dimensions



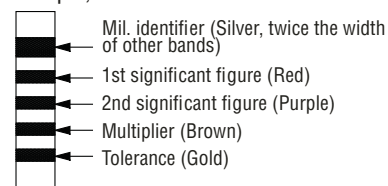
Typical Part Marking - MIL-STD Color Code

Color	1st & 2nd Significant Figure or Decimal Point	Multiplier	Tolerance
Black	0	1	
Brown	1	10	
Red	2	100	
Orange	3	1000	
Yellow	4		
Green	5		
Blue	6		
Violet	7		
Gray	8		
White	9		
Silver			$\pm 10\%$
Gold	Decimal Point		$\pm 5\%$

Example for L value less than 10 μ H
 6.8 μ H, $\pm 10\%$



Example for L value 10 μ H and higher
 270 μ H, $\pm 5\%$



REV. 06/09



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. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

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