

**BOURNS®**

### Features

- Formerly J.W. Miller® model
- High Q value
- Inductance range: 270  $\mu$ H to 1000  $\mu$ 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 ( $\Omega$ ) Max.	Idc (mA)
	( $\mu$ H)	Tol. (%)					
9220-00-RC	270	$\pm 5$	65	0.79	5.6	8.2	110
9220-02-RC	300	$\pm 5$	65	0.79	5.3	8.7	107
9220-04-RC	330	$\pm 5$	65	0.79	5.0	9.1	105
9220-06-RC	360	$\pm 5$	65	0.79	4.7	9.6	102
9220-08-RC	390	$\pm 5$	65	0.79	4.5	10.0	100
9220-10-RC	430	$\pm 5$	65	0.79	4.3	10.6	97
9220-12-RC	470	$\pm 5$	65	0.79	4.0	11.1	95
9220-14-RC	500	$\pm 5$	65	0.79	3.8	11.6	93
9220-15-RC	510	$\pm 5$	65	0.79	3.8	11.6	92
9220-16-RC	560	$\pm 5$	65	0.79	3.6	12.3	91
9220-18-RC	620	$\pm 5$	60	0.79	3.5	13.0	88
9220-20-RC	680	$\pm 5$	60	0.79	3.4	13.7	85
9220-22-RC	750	$\pm 5$	60	0.79	3.3	14.4	83
9220-24-RC	820	$\pm 5$	60	0.79	3.1	15.1	81
9220-26-RC	910	$\pm 5$	60	0.79	2.9	15.8	79
9220-28-RC	1000	$\pm 5$	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

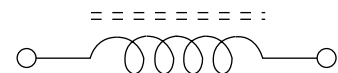
9220 - 02 - - RC

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

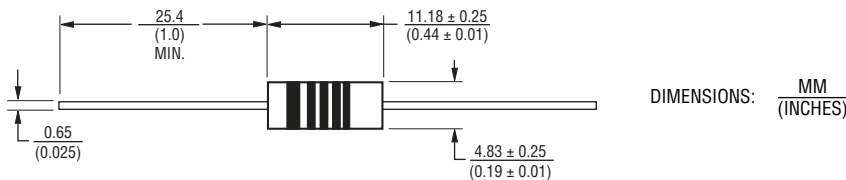
### Examples:

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

### Electrical Schematic



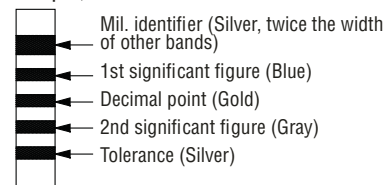
### Product Dimensions



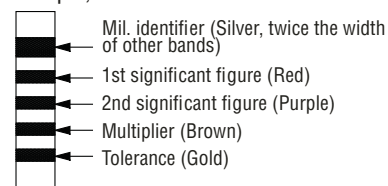
### Typical Part Marking - MIL-STD Color Code

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  $\mu$ H  
 6.8  $\mu$ H,  $\pm 10\%$



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



REV. 06/09



**WARNING Cancer and Reproductive Harm**  
[www.P65Warnings.ca.gov](http://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](http://www.bourns.com/docs/legal/disclaimer.pdf).

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