

## Features

- Formerly J. W. Miller® model
- Shielded
- High Q value
- Inductance range: 0.1  $\mu$ H to 8200  $\mu$ H
- RoHS compliant\*

## Applications

- Filters
- Output chokes

# 9250A Series Molded Axial Inductor

### Electrical Specifications

Bourns Part No.	Inductance		Q Min.	Test Frequency (MHz)	SRF (MHz) Min.	DCR ( $\Omega$ ) Max.	Idc (mA)	Isat (mA)
	( $\mu$ H)	Tol. (%)						
9250A-101-RC	0.10	$\pm 10$	50	25	250	0.025	1790	1790
9250A-121-RC	0.12	$\pm 10$	51	25	250	0.034	1530	1530
9250A-151-RC	0.15	$\pm 10$	51	25	250	0.037	1470	1470
9250A-181-RC	0.18	$\pm 10$	50	25	250	0.047	1300	1300
9250A-221-RC	0.22	$\pm 10$	49	25	250	0.067	1100	1100
9250A-271-RC	0.27	$\pm 10$	47	25	250	0.11	855	855
9250A-331-RC	0.33	$\pm 10$	46	25	250	0.13	780	780
9250A-391-RC	0.39	$\pm 10$	44	25	250	0.18	670	670
9250A-471-RC	0.47	$\pm 10$	44	25	235	0.25	565	565
9250A-561-RC	0.56	$\pm 10$	43	25	210	0.33	490	490
9250A-681-RC	0.68	$\pm 10$	42	25	190	0.45	420	420
9250A-821-RC	0.82	$\pm 10$	50	25	180	0.59	370	370
9250A-102-RC	1.0	$\pm 10$	40	25	140	0.07	1070	1070
9250A-122-RC	1.2	$\pm 10$	44	7.9	130	0.10	895	895
9250A-152-RC	1.5	$\pm 10$	44	7.9	115	0.12	815	815
9250A-182-RC	1.8	$\pm 10$	44	7.9	105	0.14	775	775
9250A-222-RC	2.2	$\pm 10$	44	7.9	100	0.19	650	650
9250A-272-RC	2.7	$\pm 10$	44	7.9	92	0.28	535	535
9250A-332-RC	3.3	$\pm 10$	44	7.9	85	0.35	480	480
9250A-392-RC	3.9	$\pm 10$	44	7.9	75	0.40	450	450
9250A-472-RC	4.7	$\pm 10$	44	7.9	70	0.55	380	380
9250A-562-RC	5.6	$\pm 10$	44	7.9	65	0.72	335	335
9250A-682-RC	6.8	$\pm 10$	50	7.9	55	1.02	280	280
9250A-822-RC	8.2	$\pm 10$	50	7.9	50	1.32	250	250
9250A-103-RC	10	$\pm 10$	50	7.9	46	1.62	220	220
9250A-123-RC	12	$\pm 10$	55	2.5	44	2.00	200	200
9250A-153-RC	15	$\pm 10$	45	2.5	49	0.80	315	250
9250A-183-RC	18	$\pm 10$	45	2.5	45	0.89	300	235
9250A-223-RC	22	$\pm 10$	45	2.5	41	0.96	290	220
9250A-273-RC	27	$\pm 10$	45	2.5	38	1.19	260	200
9250A-333-RC	33	$\pm 10$	45	2.5	34	1.37	240	190
9250A-393-RC	39	$\pm 10$	50	2.5	29	1.93	205	180
9250A-473-RC	47	$\pm 10$	50	2.5	27	2.11	195	175
9250A-563-RC	56	$\pm 10$	50	2.5	25	2.23	190	160
9250A-683-RC	68	$\pm 10$	50	2.5	21	2.70	170	150
9250A-823-RC	82	$\pm 10$	50	2.5	10.5	2.44	180	140
9250A-104-RC	100	$\pm 10$	50	2.5	10	3.12	160	120
9250A-124-RC	120	$\pm 10$	55	0.79	9.7	3.6	150	95
9250A-154-RC	150	$\pm 10$	55	0.79	8.5	4.1	140	90
9250A-184-RC	180	$\pm 10$	55	0.79	8.0	4.4	135	85
9250A-224-RC	220	$\pm 10$	55	0.79	7.5	5.0	125	80
9250A-274-RC	270	$\pm 10$	55	0.79	7.0	5.8	115	70
9250A-334-RC	330	$\pm 10$	55	0.79	6.5	6.4	110	65
9250A-394-RC	390	$\pm 10$	60	0.79	6.2	7.4	105	60
9250A-474-RC	470	$\pm 10$	60	0.79	5.7	9.5	92	58
9250A-564-RC	560	$\pm 10$	60	0.79	4.7	10.5	90	55
9250A-684-RC	680	$\pm 10$	60	0.79	4.5	11.8	80	50
9250A-824-RC	820	$\pm 10$	60	0.79	4.2	13.0	80	45

Electrical specifications continued on page 2.

### General Specifications

Temperature Rise ..... 35 °C at Idc Rated Current  
 ..... Inductance drop 5 % typical at Isat  
 Operating Temperature ..... -55 °C to +125 °C  
 Storage Temperature .....  
 ..... -55 °C to +125 °C  
 Dielectric Strength ..... 1000 Vrms

### Materials

Core ..... Ferrite  
 Wire ..... Enameled copper  
 Terminal Coating ..... Sn  
 Packaging  
 Standard ..... 500 pcs. per bag  
 Optional ..... 2500 pcs. per 12-inch reel

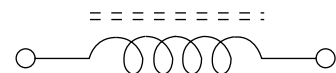
### How to Order

9250A - 102 - - RC  
 Model \_\_\_\_\_  
 Value Code \_\_\_\_\_  
 (See table)  
 Packaging Code \_\_\_\_\_  
 Blank = 500 pcs./bag  
 TR = 2500 pcs./12-inch reel  
 Compliance Code \_\_\_\_\_  
 RC = RoHS compliant\*

### Examples:

- 9250A-151-RC = 0.15  $\mu$ H packaged 500 pcs./bag.
- 9250A-681-TR-RC = 0.68  $\mu$ H packaged 2500 pcs./12-inch reel.

### Electrical Schematic



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

\*RoHS Directive 2015/863, Mar 31, 2015 and Annex. 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).

# 9250A Series Molded Axial Inductor

**BOURNS®**

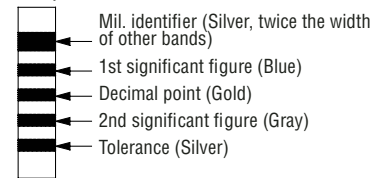
## Electrical Specifications (Continued)

Bourns Part No.	Inductance		Q Min.	Test Frequency (MHz)	SRF (MHz) Min.	DCR (Ω) Max.	Idc (mA)	Isat (mA)
	(μH)	Tol. (%)						
9250A-105-RC	1000	±10	60	0.79	3.8	17.5	70	40
9250A-125-RC	1200	±10	45	0.25	1.5	22.1	60	35
9250A-155-RC	1500	±10	45	0.25	1.2	26.5	55	33
9250A-185-RC	1800	±10	45	0.25	1.0	29.9	50	30
9250A-225-RC	2200	±10	45	0.25	0.97	33.8	50	27
9250A-275-RC	2700	±10	45	0.25	0.92	47.3	40	25
9250A-335-RC	3300	±10	45	0.25	0.84	53.0	40	22
9250A-395-RC	3900	±10	45	0.25	0.8	73.8	35	20
9250A-475-RC	4700	±10	45	0.25	0.74	81.6	31	19
9250A-565-RC	5600	±10	44	0.25	0.73	98.9	28	17
9250A-685-RC	6800	±10	40	0.25	0.66	111	27	16
9250A-825-RC	8200	±10	40	0.25	0.54	119	26	15

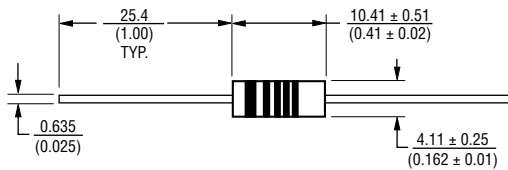
## Typ. Part Marking - MIL-STD Color Code

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			± 10 %

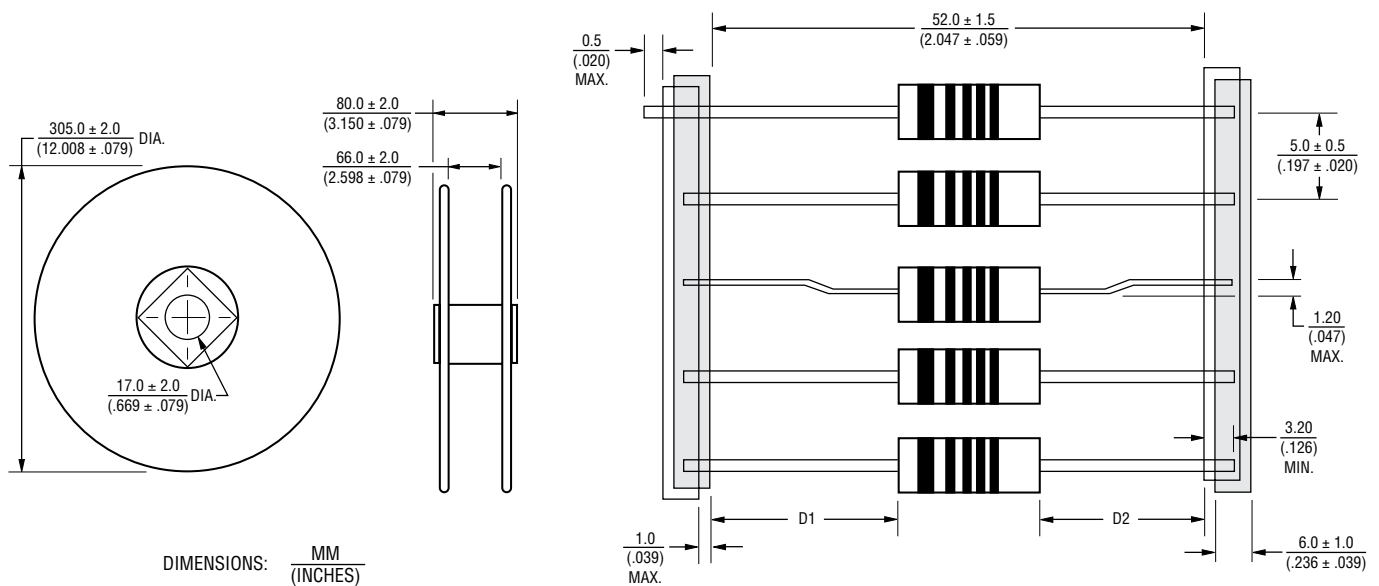
Example:  
6.8 μH, ±10 %



## Product Dimensions



## Tape and Reel Packaging Specifications



NOTE: THE DIFFERENCE BETWEEN D1 AND D2 SHOULD NOT EXCEED 1.0 (.039).

REV. 06/19

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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