

### **Features**

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

### **Applications**

- Filters
- Output chokes

# 9250A Series Molded Axial Inductor

#### **Electrical Specifications**

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

Electrical specifications continued on page 2.

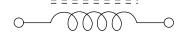


**General Specifications** Temperature Rise ...... 35 °C at Idc Rated Current ..... Inductance drop 5 % typical at Isat Operating Temperature .....-55 °C to +125 °C Storage Temperature..... .....-55 °C to +125 °C Dielectric Strength ...... 1000 Vrms **Materials** Core.....Ferrite Wire ..... Enameled 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 μH packaged 500 pcs./bag. • 9250A-681-TR-RC = 0.68 μH packaged

2500 pcs./12-inch reel.

#### **Electrical Schematic**



<sup>\*</sup>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.

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# 9250A Series Molded Axial Inductor

# **BOURNS**®

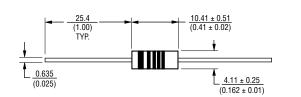
#### **Electrical Specifications (Continued)**

	Inductance			Test	SRF	DCR		
Bourns Part No.	<b>(μH)</b>	Tol. (%)	Q Min.	Frequency (MHz)	(MHz) Min.	(Ω) Max.	ldc (mA)	Isat (mA)
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	8.0	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 %

### **Product Dimensions**



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

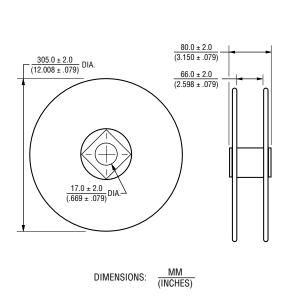
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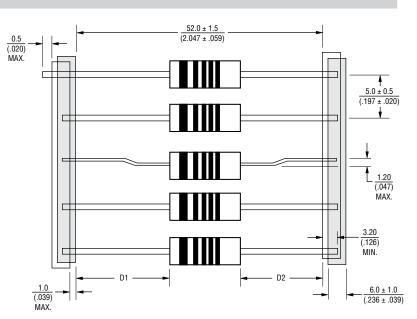
(INCHES)

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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