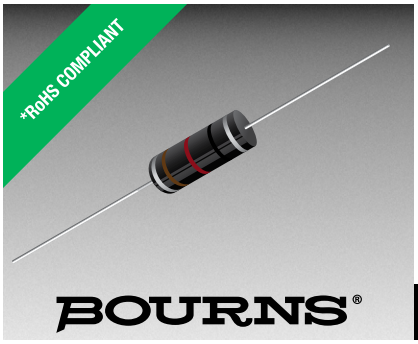


Features

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

Applications

- Filters
- Output chokes

BOURNS®

9250A Series – Molded Axial Inductor

Electrical Specifications

Bourns Part No.	Inductance (µH)	Inductance Tol. (%)	Q Min.	Test Frequency (MHz)	SRF (MHz) Min.	DCR (Ω) Max.	Idc (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.

Additional Information

Click these links for more information:

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)

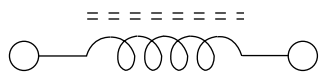
Packaging Code
Blank = 500 pcs./bag
TR = 2500 pcs./12-inch reel

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



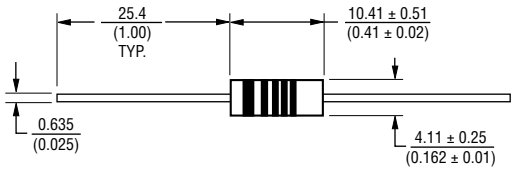
*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

WARNING
Cancer and Reproductive Harm
www.P65Warnings.ca.gov

Electrical Specifications (Continued)

Bourns Part No.	Inductance (µH)	Inductance Tol. (%)	Q Min.	Test Frequency (MHz)	SRF (MHz) Min.	DCR (Ω) Max.	Idc (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	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

Product Dimensions

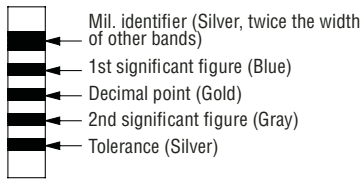


NOTE: The wire diameter used on these products is from 0.025 to 0.21 mm. Due to the inductor wire termination being made on the connection pin, careful handling during assembly is required to ensure that the lead is not subjected to any stress close to the termination point. If bending/shaping of the pin is required, maintain stability and avoid excessive or abrupt forces to keep the parts centered and the leads secure on both sides. The bend radius should be located several millimeters away from the wire termination point to ensure that it is not stressed, with possible stretching or snapping occurring.

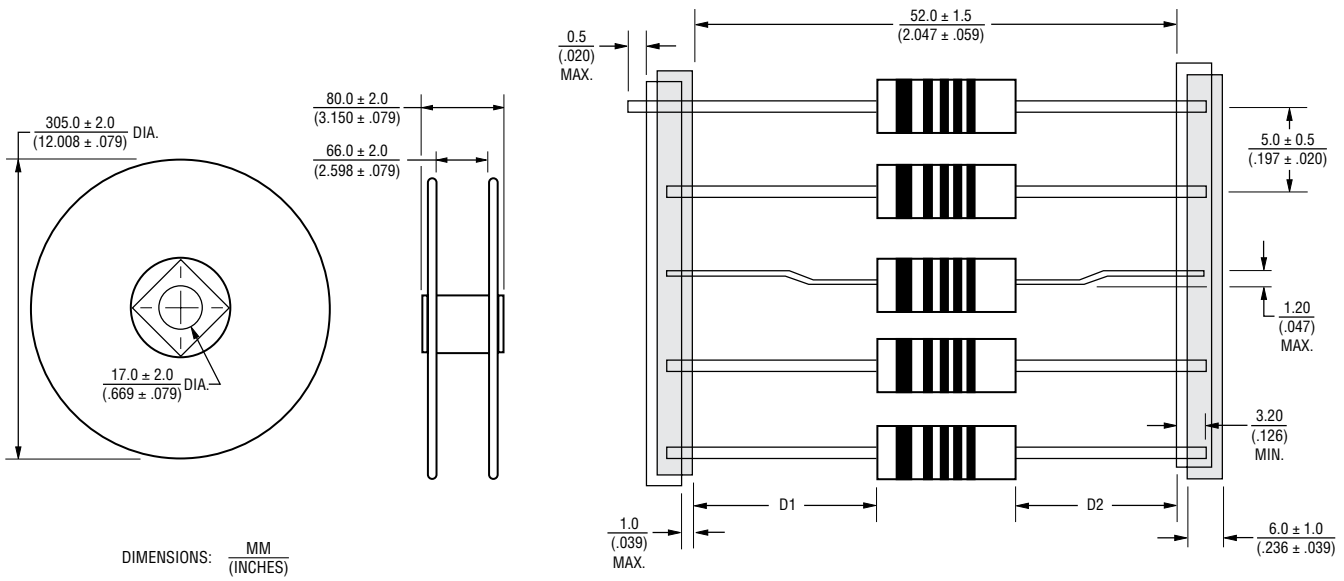
Typ. Part Marking - MIL-STD Color Code

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 %



Tape and Reel Packaging Specifications



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

REV. 03/25

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