

BOURNS®

8230 Series Conformal Coated RF Choke

Features

- Formerly J.W. Miller® model
- Current rating up to 1.1 A
- Inductance range: 1.0 µH to 1,000 µH
- RoHS compliant*

Applications

- DC/DC converters
- Power supplies
- General use

Electrical Specifications (@ 25 °C)

Bourns Part No.	Inductance (µH)	Inductance Tol. (%)	Q Min.	Test Frequency (MHz)	SRF (MHz) Min.	DCR (Ω) Max.	Idc (mA)	Core Material
8230-94-RC	0.10	±10	40	25	690	0.07	1100	Phenolic
8230-96-RC	0.12	±10	40	25	650	0.08	1100	Phenolic
8230-00-RC	0.15	±10	38	25	600	0.10	1100	Phenolic
8230-02-RC	0.18	±10	35	25	550	0.12	1010	Phenolic
8230-04-RC	0.22	±10	33	25	510	0.14	935	Phenolic
8230-06-RC	0.27	±10	33	25	430	0.16	875	Phenolic
8230-08-RC	0.33	±10	30	25	410	0.20	780	Phenolic
8230-10-RC	0.39	±10	30	25	380	0.30	640	Phenolic
8230-12-RC	0.47	±10	30	25	340	0.35	590	Phenolic
8230-14-RC	0.56	±10	30	25	300	0.50	495	Phenolic
8230-16-RC	0.68	±10	28	25	275	0.60	450	Phenolic
8230-18-RC	0.82	±10	28	25	250	0.85	380	Phenolic
8230-20-RC	1.0	±10	25	25	230	1.00	350	Phenolic
8230-22-RC	1.2	±10	25	7.9	150	0.18	825	Ferrite
8230-24-RC	1.5	±10	28	7.9	140	0.22	745	Ferrite
8230-26-RC	1.8	±10	30	7.9	125	0.30	640	Ferrite
8230-28-RC	2.2	±10	30	7.9	115	0.40	550	Ferrite
8230-30-RC	2.7	±10	37	7.9	100	0.50	495	Ferrite
8230-32-RC	3.3	±10	45	7.9	90	0.85	380	Ferrite
8230-34-RC	3.9	±10	45	7.9	82	1.0	350	Ferrite
8230-36-RC	4.7	±10	45	7.9	75	1.2	320	Ferrite
8230-38-RC	5.6	±10	50	7.9	68	1.8	260	Ferrite
8230-40-RC	6.8	±10	50	7.9	60	2.0	245	Ferrite
8230-42-RC	8.2	±10	55	7.9	55	2.7	210	Ferrite
8230-44-RC	10	±10	55	7.9	50	3.7	180	Ferrite
8230-46-RC	12	±10	45	2.5	40	2.7	210	Ferrite
8230-48-RC	15	±10	45	2.5	35	2.8	205	Ferrite
8230-50-RC	18	±10	50	2.5	32	3.1	195	Ferrite
8230-52-RC	22	±10	50	2.5	25	3.3	190	Ferrite
8230-54-RC	27	±10	50	2.5	22	3.5	185	Ferrite
8230-56-RC	33	±10	45	2.5	24	3.4	187	Ferrite
8230-58-RC	39	±10	45	2.5	22	3.6	180	Ferrite
8230-60-RC	47	±10	45	2.5	20	4.5	165	Ferrite
8230-62-RC	56	±10	45	2.5	18	5.7	145	Ferrite
8230-64-RC	68	±10	50	2.5	15	6.7	135	Ferrite
8230-66-RC	82	±10	50	2.5	14	7.3	130	Ferrite
8230-68-RC	100	±10	50	2.5	13	8.0	125	Ferrite
8230-70-RC	120	±10	30	0.79	12	13	97	Ferrite
8230-72-RC	150	±10	30	0.79	11	15	85	Ferrite
8230-74-RC	180	±10	30	0.79	10	17	79	Ferrite
8230-76-RC	220	±10	30	0.79	9.0	21	73	Ferrite
8230-78-RC	270	±10	30	0.79	8.0	25	65	Ferrite
8230-80-RC	330	±10	30	0.79	4.0	28	62	Ferrite
8230-82-RC	390	±10	30	0.79	6.6	35	55	Ferrite
8230-84-RC	470	±10	30	0.79	6.0	42	50	Ferrite
8230-86-RC	560	±10	30	0.79	5.0	46	48	Ferrite
8230-88-RC	680	±10	30	0.79	4.2	60	42	Ferrite
8230-90-RC	820	±10	30	0.79	3.8	65	40	Ferrite
8230-92-RC	1,000	±10	30	0.79	3.4	72	38	Ferrite

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

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Additional Information

Click these links for more information:

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General Specifications

Temperature Rise ..... 35 °C at Idc
Operating Temperature
..... -55 °C to +105 °C
Storage Temperature
..... -55 °C to +105 °C
Dielectric Strength ..... 500 Vrms

Materials

Core ..... See value table
Wire ..... Enameled copper
Terminal Coating ..... Sn
Coating ..... Epoxy resin
Packaging
Standard ..... 1000 pcs. per bag
Optional ..... 5000 pcs. per 14-inch reel

How to Order

8230 - 22 - __ - RC

Model

Value Code
(See table)

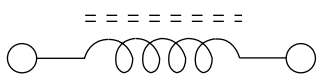
Packaging Code
Blank = 1000 pcs./bag
TR = 5000 pcs./14-inch reel

Compliance Code
RC = RoHS compliant*

Examples:

- *8230-22-RC = 1.20 mH packaged 1000 pcs./bag.*
- *8230-50-TR-RC = 18 mH packaged 5000 pcs./14-inch reel.*

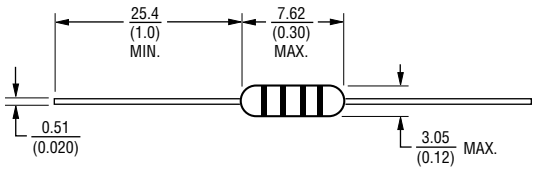
Electrical Schematic



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

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Product Dimensions



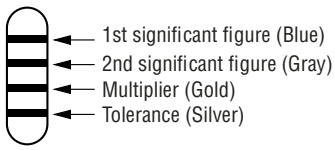
DIMENSIONS: MM / (INCHES)

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.

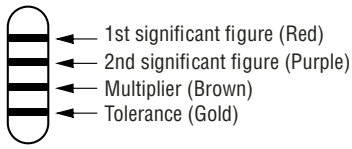
Typical Part Marking - EIA Color Code

Color	1st & 2nd Significant Figure	Multiplier	Tolerance
Silver		0.01	±10 %
Gold		0.1	±5 %
Black	0	1	
Brown	1	10	
Red	2	100	
Orange	3	1000	
Yellow	4		
Green	5		
Blue	6		
Violet	7		
Gray	8		
White	9		

Example for L value less than 10 µH
6.8 µH, ±10 %



Example for L value 10 µH and higher
270 µH, ±5 %



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REV. 03/25

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