

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

8230 Series Conformal Coated RF Choke

Electrical Specifications (@ 25 °C)

	Indu	ctance		Test	SRF	DCR		
Bourns Part No.	(µH)	Tol. (%)	Q Min.	Frequency (MHz)	(MHz) Min.	(Ω) Max.	ldc (mA)	Core Materia
8230-94-RC	0.10	±10	40	25	690	0.07	1100	Phenoli
8230-96-RC	0.12	±10	40	25	650	0.08	1100	Phenoli
8230-00-RC	0.15	±10	38	25	600	0.10	1100	Phenoli
8230-02-RC	0.18	±10	35	25	550	0.12	1010	Phenoli
8230-04-RC	0.22	±10	33	25	510	0.14	935	Phenoli
8230-06-RC	0.27	±10	33	25	430	0.16	875	Phenoli
8230-08-RC	0.33	±10	30	25	410	0.20	780	Phenoli
8230-10-RC	0.39	±10	30	25	380	0.30	640	Phenoli
8230-12-RC	0.47	±10	30	25	340	0.35	590	Phenoli
8230-14-RC	0.56	±10	30	25	300	0.50	495	Phenoli
8230-16-RC	0.68	±10	28	25	275	0.60	450	Phenoli
8230-18-RC	0.82	±10	28	25	250	0.85	380	Phenoli
8230-20-RC	1.0	±10	25	25	230	1.00	350	Phenoli
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
8230-32-RC	3.9	±10	45	7.9	82	1.0	350	Ferrite
	4.7		45	7.9		1.0	320	Ferrite
8230-36-RC		±10			75			
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

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General Specifications

Temperature Rise	35 °C at Idc
Operating Temperature	
5	5 °C to +105 °C
Storage Temperature	
5	5 °C to +105 °C
Dielectric Strength	500 Vrms

Materials

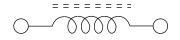
Core	See value table
Wire	Enameled copper
Terminal Coating	Sn
Coating	Epoxy resin
Packaging	
Standard	1000 pcs. per bag
Optional 5000 p	ocs. per 14-inch reel

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

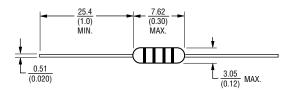




8230 Series Conformal Coated RF Choke

BOURNS

Product Dimensions



DIMENSIONS: $\frac{MM}{(INCHES)}$

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 , $\pm 5~\%$



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