

Features

- Formerly *JW.Miller* model
- Current rating up to 3.3 A
- Inductance range: 1.0 μ H to 10,000 μ H
- RoHS compliant*

Applications

- DC/DC converters
- Power supplies
- General use

5300 Series Conformal Coated RF Choke

Electrical Specifications (@ 25 °C)

Bourns Part No.	Inductance		Test Frequency	SRF (MHz) Min.	DCR (Ω) Max.	Idc (mA)	Isat (mA)
	(μ H)	Tol. (%)					
5300-01-RC	1.0	± 10	7.96 MHz	190	0.018	3300	3000
5300-02-RC	1.2	± 10	7.96 MHz	170	0.019	3200	2700
5300-03-RC	1.5	± 10	7.96 MHz	160	0.020	3100	2500
5300-04-RC	1.8	± 10	7.96 MHz	150	0.023	2900	2100
5300-05-RC	2.2	± 10	7.96 MHz	130	0.031	2600	2000
5300-06-RC	2.7	± 10	7.96 MHz	120	0.033	2500	1900
5300-07-RC	3.3	± 10	7.96 MHz	110	0.054	1900	1700
5300-08-RC	3.9	± 10	7.96 MHz	100	0.060	1800	1500
5300-09-RC	4.7	± 10	7.96 MHz	86	0.068	1700	1400
5300-10-RC	5.6	± 10	7.96 MHz	64	0.074	1600	1300
5300-11-RC	6.8	± 10	7.96 MHz	44	0.080	1600	1200
5300-12-RC	8.2	± 10	7.96 MHz	32	0.087	1500	1100
5300-13-RC	10	± 10	1 KHz	25	0.095	1500	970
5300-14-RC	12	± 10	1 KHz	17	0.11	1400	880
5300-15-RC	15	± 10	1 KHz	13	0.15	1200	790
5300-16-RC	18	± 10	1 KHz	10	0.16	1100	710
5300-17-RC	22	± 10	1 KHz	8.4	0.19	1000	640
5300-18-RC	27	± 10	1 KHz	8.0	0.22	950	580
5300-19-RC	33	± 10	1 KHz	7.6	0.24	910	530
5300-20-RC	39	± 10	1 KHz	7.1	0.26	880	480
5300-21-RC	47	± 10	1 KHz	6.0	0.35	760	430
5300-22-RC	56	± 10	1 KHz	5.8	0.47	650	400
5300-23-RC	68	± 10	1 KHz	4.3	0.53	610	370
5300-24-RC	82	± 10	1 KHz	4.1	0.60	580	330
5300-25-RC	100	± 10	1 KHz	3.9	0.67	550	300
5300-26-RC	120	± 10	1 KHz	3.6	0.90	470	270
5300-27-RC	150	± 10	1 KHz	3.2	1.2	410	250
5300-28-RC	180	± 10	1 KHz	2.8	1.4	380	220
5300-29-RC	220	± 10	1 KHz	2.3	1.9	320	200
5300-30-RC	270	± 10	1 KHz	2.1	2.1	310	180
5300-31-RC	330	± 10	1 KHz	1.9	2.4	290	170
5300-32-RC	390	± 10	1 KHz	1.7	3.0	260	150
5300-33-RC	470	± 10	1 KHz	1.4	3.4	240	140
5300-34-RC	560	± 10	1 KHz	1.3	4.7	210	130
5300-35-RC	680	± 10	1 KHz	1.2	6.4	180	110
5300-36-RC	820	± 10	1 KHz	1.1	7.1	170	100
5300-37-RC	1000	± 10	1 KHz	1.0	7.9	160	95
5300-38-RC	1200	± 10	1 KHz	0.94	9.0	150	87
5300-39-RC	1500	± 10	1 KHz	0.76	12	130	78
5300-40-RC	1800	± 10	1 KHz	0.72	14	120	71
5300-41-RC	2200	± 10	1 KHz	0.64	19	100	64
5300-42-RC	2700	± 10	1 KHz	0.56	25	90	58
5300-43-RC	3300	± 10	1 KHz	0.53	29	83	52
5300-44-RC	3900	± 10	1 KHz	0.48	34	77	48
5300-45-RC	4700	± 10	1 KHz	0.45	37	74	44
5300-46-RC	5600	± 10	1 KHz	0.40	50	63	40
5300-47-RC	6800	± 10	1 KHz	0.36	58	59	36
5300-48-RC	8200	± 10	1 KHz	0.29	68	54	33
5300-49-RC	10,000	± 10	1 KHz	0.27	75	52	30

General Specifications

Temperature Rise35 °C at Idc
 Rated Current
Inductance drop 5 % typical at Isat
 Operating Temperature...-55 °C to +105 °C
 Storage Temperature.....-55 °C to +105 °C
 Dielectric Strength.....500 Vrms

Materials

Core.....Ferrite
 Wire.....Enameled copper
 Terminal CoatingSn
 CoatingEpoxy resin
 Packaging
 Standard.....500 pcs. per bag
 Optional3000 pcs. per 14-inch reel

How To Order

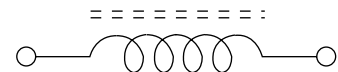
5300 - 02 - _ - RC

Model _____
 Value Code _____
 (See table)
 Packaging Code _____
 Blank = 500 pcs./bag
 TR = 3000 pcs./14-inch reel
 Compliance Code _____
 RC = RoHS compliant*

Examples:

- 5300-02-RC = 1.2 μ H packaged 500 pcs./bag.
- 5300-16-TR-RC = 18 μ H packaged 3000 pcs./14-inch reel.

Electrical Schematic

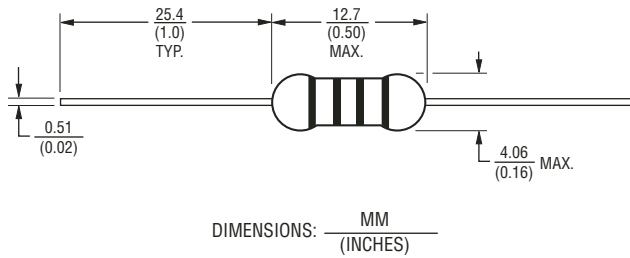


*RoHS Directive 2002/95/EC Jan 27 2003 including Annex
 Specifications are subject to change without notice.
 Customers should verify actual device performance in their specific applications.

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BOURNS®

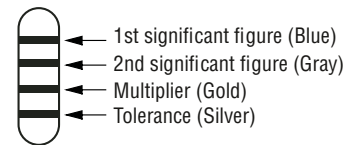
Product Dimensions



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 %

