



Frontier Electronics Corp.

667 E. COCHRAN STREET, SIMI VALLEY, CA 93065

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RF Coated Chokes (Axial Leads)—1210 series

A. Electrical Specifications:

Part Number	Inductance (μH)	Q Min.	Test Freq. (MHz)	SRF Min. (MHz)	DCR (OHM) Max.	Rated Current (mA) Max.
1210R22	0.22	35	25.2	150	0.40	400
1210R27	0.27	35	25.2	150	0.43	380
1210R33	0.33	35	25.2	150	0.48	370
1210R39	0.39	35	25.2	150	0.51	350
1210R47	0.47	35	25.2	150	0.56	330
1210R56	0.56	35	25.2	150	0.61	320
1210R68	0.68	35	25.2	150	0.67	310
1210R82	0.82	35	25.2	150	0.74	290
12101R0	1.0	35	25.2	120	0.80	270
12101R2	1.2	40	7.96	110	0.90	260
12101R5	1.5	40	7.96	80	1.0	250
12101R8	1.8	40	7.96	60	1.1	240
12102R2	2.2	40	7.96	45	1.2	230
12102R7	2.7	40	7.96	40	1.3	220
12103R3	3.3	40	7.96	38	1.4	210
12103R9	3.9	40	7.96	35	1.6	200
12104R7	4.7	40	7.96	32	1.7	190
12105R6	5.6	40	7.96	30	1.9	180
12106R8	6.8	40	7.96	28	2.0	175
12108R2	8.2	40	7.96	26	2.2	165
1210100	10	40	7.96	24	2.5	160
1210120	12	40	2.52	22	2.5	150
1210150	15	40	2.52	20	2.8	145
1210180	18	40	2.52	18	3.1	140
1210220	22	40	2.52	17	3.4	130
1210270	27	40	2.52	16	4.3	80
1210330	33	40	2.52	14	4.7	76
1210390	39	40	2.52	13	5.2	74
1210470	47	40	2.52	12	5.8	70
1210560	56	40	2.52	11	6.4	68
1210680	68	40	2.52	10	7.2	64
1210820	82	40	2.52	9.5	11	46
1210101	100	40	2.52	9.0	12	44
1210121	120	40	0.796	8.0	13	42
1210151	150	40	0.796	6.0	16	39
1210181	180	40	0.796	5.5	18	37
1210221	220	40	0.796	5.0	20	35
1210271	270	40	0.796	4.5	22	33
1210331	330	40	0.796	4.0	25	31

Note: **RoHS** compliant; for the **ROHS** parts, we add "**-LFR**" at the end of the P/N.



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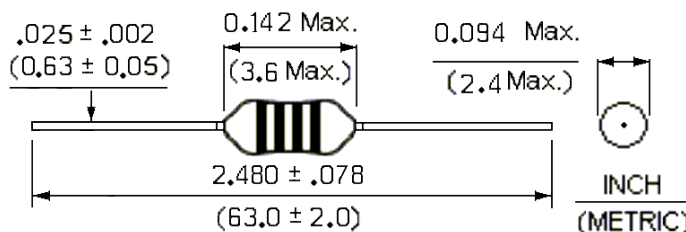
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B. Mechanical Dimensions:



Mechanical drawing

C. General Information:

1. Coil Form Material: Ferrite
2. Body Size: 3.6 x 2.4 mm body size
3. Inductance (Current) ranges: 0.22uH (400mA) - 330uH (31mA)
4. Inductance Tolerance: M:±20%, K: ±10%, J:±5%.
5. DCR: from 0.40 - 25.0 Ohms
6. Other information:

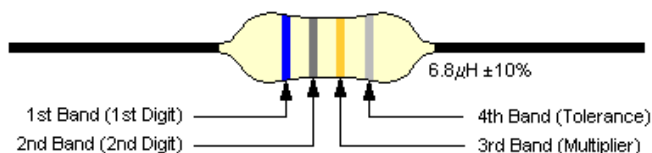
Spec. / Series	1201 to 1211 Series	1310 to 1501 Series
Operating Temperature:	- 20°C to + 80°C	Phenolic: 125°C Max. Ferrite: 105°C Max.
Temp. Rise:	20°C	Phenolic: 35°C Max. Ferrite: 15°C Max.
Ambient Temperature:	90°C Max.	
Terminal Strength:	3 lb.	
Marking:	Color Code in accordance with EIA	Color Code in accordance with MIL-C-15305 D
Moisture & Heat Resist.:	$\Delta L/L \leq \pm 5\%$ $\Delta Q/Q \leq \pm 10\%$	
Dielectric Strength:	1KV rms.	
Test Equipment:	L & Q = HP4342A at specified frequency DCR = Milli-Ohm meter, SRF = HP4191A	

7. Color Code for RF Coated Chokes:

Color	Black	Brown	Red	Orange	Yellow	Green	Blue	Violet	Gray	White	Gold	Silver	None
Digit	0	1	2	3	4	5	6	7	8	9	--	--	--
Multiplier	1	10	100	1000	10,000	--	--	--	--	--	0.1	0.01	--
Tolerance	--	--	--	3%	--	--	--	--	--	--	5%	10%	20%

Example for color code on Molded Inductor:

Inductance (µH)	1st Band	2nd Band	3rd Band	4th Band
0.68 ± 10%	Blue	Gray	Silver	Silver
6.8 ± 10%	Blue	Gray	Gold	Silver
68 ± 10%	Blue	Gray	Black	Silver



Color Code

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