



Frontier Electronics Corp.

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RF Coated Chokes (Axial Leads)—1211 series

A. Electrical Specifications:

Part Number	Inductance (uH) @ 1KHz	Q Min.	Test Freq. (MHz)	SRF Min. (MHz)	DCR (OHM) Max.	Rated Current (mA) Max.
12111R0K	1.0	10	7.96	300	.022	5600
12111R2K	1.2	10	7.96	260	.024	5500
12111R5K	1.5	10	7.96	250	.026	5000
12111R8K	1.8	10	7.96	240	.029	4700
12112R2K	2.2	10	7.96	220	.031	4500
12112R7K	2.7	10	7.96	195	.034	4000
12113R3K	3.3	10	7.96	155	.038	3400
12113R9K	3.9	10	7.96	115	.040	3100
12114R7K	4.7	10	7.96	85	.044	2800
12115R6K	5.6	10	7.96	55	.048	2600
12116R8K	6.8	10	7.96	50	.051	2400
12118R2K	8.2	10	7.96	38	.056	2200
1211100K	10.0	10	7.96	24	.062	2100
1211120K	12.0	10	2.52	18	.076	1800
1211150K	15.0	10	2.52	16	.088	1700
1211180K	18.0	10	2.52	15	.110	1600
1211220K	22.0	10	2.52	14	.130	1400
1211270K	27.0	10	2.52	13	.140	1300
1211330K	33.0	10	2.52	11	.200	1200
1211390K	39.0	10	2.52	10	.220	1100
1211470K	47.0	10	2.52	9.5	.280	1000
1211560K	56.0	10	2.52	8.0	.300	900
1211680K	68.0	10	2.52	7.5	.340	800
1211820K	82.0	10	2.52	7.0	.385	700
1211101K	100.0	10	2.52	6.5	.480	700
1211121K	120.0	15	.796	5.0	.595	600
1211151K	150.0	15	.796	4.5	.900	550
1211181K	180.0	15	.796	4.0	1.10	500
1211221K	220.0	15	.796	3.8	1.25	440
1211271K	270.0	15	.796	3.5	1.85	420
1211331K	330.0	15	.796	3.0	2.10	380
1211391K	390.0	15	.796	2.8	2.28	340
1211471K	470.0	15	.796	2.5	3.22	320
1211561K	560.0	15	.796	2.2	3.85	290
1211681K	680.0	15	.796	2.1	4.00	260
1211821K	820.0	15	.796	2.0	5.00	250
1211102K	1000.0	15	.796	1.8	5.80	240
1211122K	1200.0	15	.252	1.6	7.10	200
1211152K	1500.0	15	.252	1.5	7.80	190

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

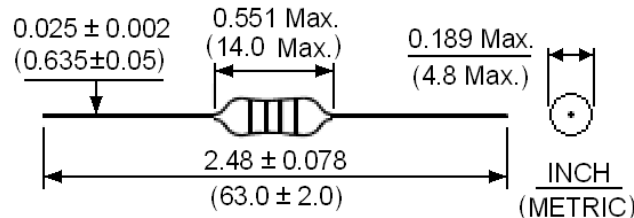


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B. Mechanical Dimensions:



Mechanical drawing

C. General Information:

1. Coil Form Material: Ferrite
2. Body Size: 14.0 x 4.5 mm body size
3. Inductance (Current) ranges: 1.0 μ H (5600mA) – 1500 μ H (190mA)
4. Inductance Tolerance: M:±20%, K: ±10%, J:±5%.
5. DCR: from 0.22 – 7.80 Ohms
6. Other information:

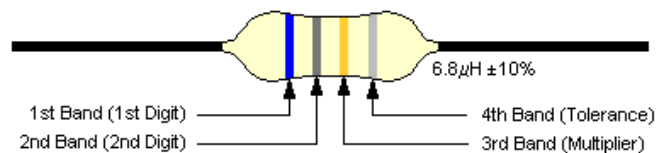
Spec. / Series	1201 to 1211 Series	1310 to 1501 Series
Operating Temperature:	- 20°X to + 80°X	Phenolic: 125°X Max. Ferrite: 105°X Max.
Temp. Rise:	20°X	Phenolic: 35°X Max. Ferrite: 15°X Max.
Ambient Temperature:	90°X Max.	
Terminal Strength:	3 lb.	
Marking:	Color Code in accordance with EIA	Color Code 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 (μ H)	1st Band	2nd Band	3rd Band	4th Band
0.68 \pm 10%	Blue	Gray	Silver	Silver
6.8 \pm 10%	Blue	Gray	Gold	Silver
68 \pm 10%	Blue	Gray	Black	Silver



Color Code

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