



Frontier Electronics Corp.

667 E. COCHRAN STREET, SIMI VALLEY, CA 93065

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RF Coated Chokes (Axial Leads)—1206 series

A. Electrical Specifications:

Part Number	Inductance (μ H)	Q Min.	Test Freq. (MHz)	SRF Min. (MHz)	DCR (OHM) Max.	Rated Current (mA) Max.
1206R10M	0.10	45	25	300	0.10	1400
1206R12M	0.12	45	25	300	0.10	1400
1206R15M	0.15	45	25	300	0.10	1400
1206R18M	0.18	45	25	300	0.10	1400
1206R22M	0.22	45	25	300	0.10	1400
1206R27M	0.27	45	25	270	0.11	1320
1206R33M	0.33	45	25	250	0.12	1280
1206R39M	0.39	45	25	230	0.13	1200
1206R47M	0.47	45	25	220	0.14	1150
1206R56M	0.56	45	25	200	0.15	1100
1206R68M	0.68	45	25	190	0.16	1030
1206R82M	0.82	45	25	172	0.17	980
12061R0K	1.0	45	25	157	0.19	920
12061R2K	1.2	50	7.9	144	0.21	880
12061R5K	1.5	50	7.9	131	0.23	830
12061R8K	1.8	50	7.9	121	0.25	790
12062R2K	2.2	50	7.9	110	0.28	750
12062R7K	2.7	60	7.9	100	0.30	720
12063R3K	3.3	65	7.9	94	0.34	670
12063R9K	3.9	65	7.9	65	0.37	640
12064R7K	4.7	70	7.9	56	0.39	620
12065R6K	5.6	70	7.9	48	0.43	590
12066R8K	6.8	75	7.9	37	0.48	550
12068R2K	8.2	80	7.9	25	0.52	530
1206100K	10	65	7.9	21	0.58	500
1206120K	12	50	2.5	19	0.63	480
1206150K	15	50	2.5	17	0.72	460
1206180K	18	50	2.5	13	0.77	430
1206220K	22	50	2.5	9.6	0.84	410
1206270K	27	50	2.5	7.2	0.94	390
1206330K	33	50	2.5	6.3	1.03	370
1206390K	39	50	2.5	6.3	1.12	350
1206470K	47	45	2.5	6.3	1.22	340
1206560K	56	40	2.5	6.2	1.34	320
1206680K	68	40	2.5	5.7	1.47	305
1206820K	82	35	2.5	5.3	1.62	290
1206101K	100	30	2.5	4.8	1.80	275
1206121K	120	55	0.79	3.8	3.7	185
1206151K	150	45	0.79	3.5	4.2	175
1206181K	180	50	0.79	3.3	4.6	165
1206221K	220	55	0.79	3.0	5.1	155
1206271K	270	65	0.79	2.8	5.8	145
1206331K	330	65	0.79	2.6	6.4	137
1206391K	390	65	0.79	2.4	7.0	133
1206471K	470	60	0.79	2.25	7.7	126
1206561K	560	60	0.79	2.10	8.5	120
1206681K	680	55	0.79	1.95	9.4	113
1206821K	820	55	0.79	1.85	10.5	105
1206102K	1000	50	0.79	1.40	14.0	100

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



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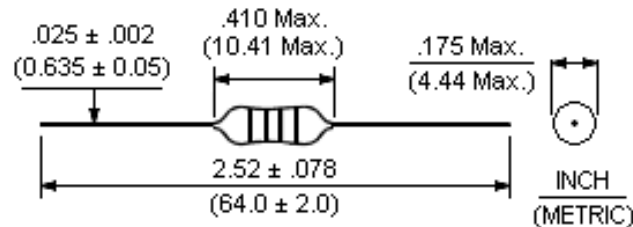
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B. Mechanical Dimensions:



Mechanical drawing

C. General Information:

1. Coil Form Material: Ferrite
2. Body Size: 10.41 x 4.44 mm
3. Inductance (Current) ranges: 0.10uH (1.4A) - 1000uH (100mA)
4. Inductance Tolerance: M: $\pm 20\%$, K: $\pm 10\%$, J: $\pm 5\%$.
5. DCR: from 0.10 - 14.0 Ohms.
6. Other information:

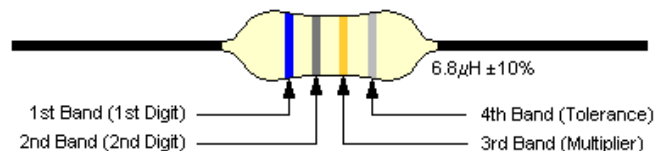
Spec. / Series	1201 to 1211 Series	1310 to 1501 Series
Operating Temperature:	- 20°C to + 80°C	Phenolic: 125°C Max. Ferrite: 105°C Max.
Temp. Rise:	20°C	Phenolic: 35°C Max. Ferrite: 15°C Max.
Ambient Temperature:	90°C Max.	
Terminal Strength:	3 lb.	
Marking:	Color Code in accordance with EIA	Color Code 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
$0.68 \pm 10\%$	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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