Frontier Electronics Corp.

667 E. COCHRAN STREET, SIMI VALLEY, CA 93065
TEL: (805) 522-9998 FAX: (805) 522-9989
E-mail: frontiersales@frontierusa.com
Web: frontierusa.com

RF Coated Chokes (Axial Leads)—1205 series

A. Electrical Specifications:

Part Number	Inductance (µH)	Q Min.	Test Freq. (MHz)	SRF Min. (MHz)	DCR (OHM) Max.	Rated Current (mA) Max.
1205R10M	0.10	35	25	380	0.075	1150
1205R12M	0.12	35	25	380	0.075	1150
1205R15M	0.15	35	25	380	0.075	1150
1205R18M	0.18	35	25	380	0.075	1150
1205R22M	0.22	35	25	380	0.075	1150
1205R27M	0.27	35	25	360	0.08	1110
1205R33M	0.33	35	25	350	0.08	1110
1205R39M	0.39	35	25	320	0.09	1000
1205R47M	0.47	40	25	300	0.10	1000
1205R56M	0.56	40	25	280	0.11	950
1205R68M	0.68	40	25	250	0.12	900
1205R82M	0.82	40	25	200	0.12	900
12051R0K	1.0	50	25	180	0.15	815
12051R2K	1.2	50	7.9	165	0.18	740
12051R5K	1.5	50	7.9	150	0.20	700
12051R8K	1.8	50	7.9	125	0.23	655
12052R2K	2.2	50	7.9	110	0.25	630
12052R7K	2.7	50	7.9	95	0.28	595
12053R3K	3.3	50	7.9	70	0.30	575
12053R9K	3.9	50	7.9	65	0.32	555
12054R7K	4.7	50	7.9	50	0.35	530
12055R6K	5.6	50	7.9	40	0.40	500
12056R8K	6.8	50	7.9	30	0.45	470
12058R2K	8.2	50	7.9	28	0.55	425
1205100K	10	50	7.9	22	0.72	370
1205120K	12	50	2.5	20	0.80	350
1205150K	15	50	2.5	16	0.88	335
1205180K	18	50	2.5	15	1.0	315
1205220K	22	50	2.5	13	1.2	285
1205270K	27	50	2.5	11	1.35	270
1205330K	33	50	2.5	10	1.5	255
1205390K	39	50	2.5	9.5	1.7	240
1205470K	47	50	2.5	8.5	2.3	205
1205560K	56	50	2.5	7.5	2.6	195
1205680K	68	50	2.5	6.5	2.9	185
1205820K	82	50	2.5	6.0	3.2	175
1205101K	100	50	2.5	5.5	3.5	165
1205121K	120	50	0.79	5.4	3.8	160
1205151K	150	50	0.79	4.75	4.4	150
1205181K	180	50	0.79	4.35	5.0	140
1205221K	220	50	0.79	4.0	5.7	130
1205271K	270	50	0.79	3.7	6.5	120
1205331K	330	50	0.79	3.4	9.5	100
1205391K	390	50	0.79	2.8	10.5	95
1205471K	470	50	0.79	2.55	11.6	90
1205561K	560	50	0.79	2.35	13	85
1205681K	680	50	0.79	2.0	18	75
1205821K	820	50	0.79	1.5	23	65
1205102K	1000	50	0.79	1.2	26	60

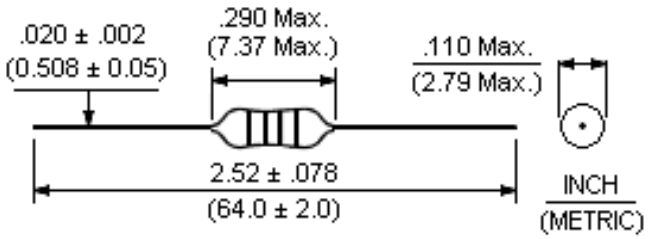
Note: RoHS compliant; for the ROHS parts, we add "-LFR" at the end of the P/N.

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RF Coated Chokes (Axial Leads)—1205 series

B. Mechanical Dimensions:



Mechanical drawing

C. General Information:

1. Coil Form Material: Ferrite
2. Body Size: 7.37 x 2.79 mm
3. Inductance (Current) ranges: 0.10uH (1.15A) - 1000uH (60mA)
4. Inductance Tolerance: M:±20%, K: ±10%, J:±5%.
5. DCR: from 0.075 - 26.0 Ohms.
6. Other information:

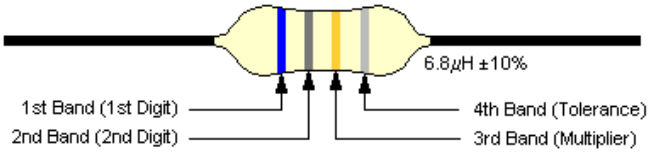
Spec. / Series	1201 to 1211 Series	1310 to 1501 Series
Operating Temperature:	- 20°C to + 80°C	Phenolic: 125°C Max. Ferrite: 105°C Max.
Temp. Rise:	20°C	Phenolic: 35°C Max. Ferrite: 15°C Max.
Ambient Temperature:	90°C Max.	
Terminal Strength:	3 lb.	
Marking:	Color Code in accordance with EIA	Color Code in accordance with MIL-C-15305 D
Moisture & Heat Resist.:	Δ L/L ≤ ±5% Δ Q/Q ≤ ±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 foe 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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