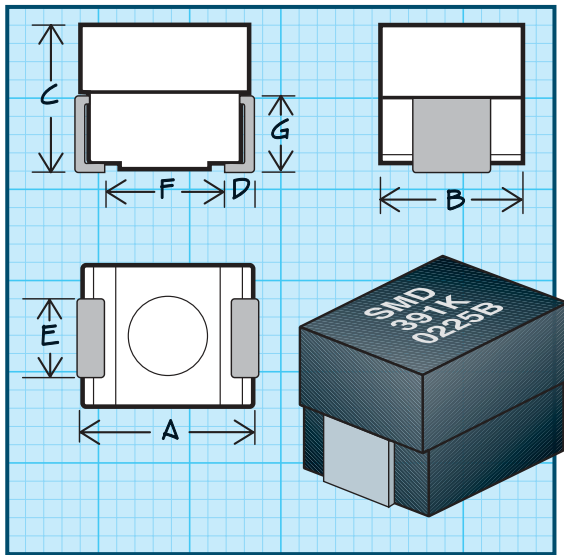


# Series 1210

## Surface Mount Inductors



### Physical Parameters

	Inches	Millimeters
A	0.118 to 0.138	3.00 to 3.51
B	0.085 to 0.105	2.16 to 2.67
C	0.081 to 0.101	2.06 to 2.57
D	0.016 (Min.)	0.41 (Min.)
E	0.041 to 0.061	1.04 to 1.55
F	0.070 (Ref. only)	1.78 (Ref. only)
G	0.054 (Ref. only)	1.37 (Ref. only)

Dimensions "A" and "C" are over terminals

**Weight Max.** (Grams) 0.1

**Operating Temperature Range** -55°C to +125°C

**Current Rating at 90°C Ambient** 35°C Rise

**Maximum Power Dissipation at 90°C Ambient**

Phenolic: 0.168 W

Iron: 0.287 W

Ferrite: 0.287 W

\* **Note** Self Resonant Frequency (SRF) values are calculated and for reference only.

**Packaging** Tape & reel (8mm): 7" reel, 2000 pieces max.; 13" reel, 7000 pieces max.

*Made In the U.S.A. Patent Protected*

PART NUMBER  
INDUCTANCE (µH)  
TOLERANCE  
Q MINIMUM  
TEST FREQUENCY (MHz)  
SRF MINIMUM (MHz) \*  
DC RESISTANCE MAXIMUM (OHMS)  
CURRENT RATING MAX. (mA)

SERIES 1210 PHENOLIC CORE							
1210-018M	0.0018	± 20%	40	50.0	2700*	0.050	1562
1210-022M	0.0022	± 20%	40	50.0	2700*	0.050	1562
1210-027M	0.0027	± 20%	40	50.0	2700*	0.050	1562
1210-033M	0.0033	± 20%	40	50.0	2700*	0.050	1562
1210-039M	0.0039	± 20%	40	50.0	2700*	0.050	1562
1210-047M	0.0047	± 20%	40	50.0	2700*	0.050	1562
1210-056M	0.0056	± 20%	40	50.0	2700*	0.050	1562
1210-068M	0.0068	± 20%	40	50.0	2700*	0.050	1562
1210-082M	0.0082	± 20%	40	50.0	2700*	0.050	1562
1210-100K	0.010	± 10%	30	50.0	2000*	0.13	966
1210-120K	0.012	± 10%	30	50.0	1850*	0.14	931
1210-150K	0.015	± 10%	30	50.0	1700*	0.16	871
1210-180K	0.018	± 10%	30	50.0	1550*	0.18	821
1210-220K	0.022	± 10%	30	50.0	1300*	0.20	779
1210-270K	0.027	± 10%	30	50.0	1150*	0.22	743
1210-330K	0.033	± 10%	30	50.0	1000*	0.24	711
1210-390K	0.039	± 10%	30	50.0	900*	0.27	670
1210-470K	0.047	± 10%	30	50.0	800*	0.30	636
1210-560K	0.056	± 10%	30	50.0	750*	0.33	606
1210-680K	0.068	± 10%	30	50.0	700*	0.36	580
1210-820K	0.082	± 10%	30	50.0	625*	0.40	551

SERIES 1210 IRON CORE							
1210-101K	0.10	± 10%	30	25.0	550	0.20	1018
1210-121K	0.12	± 10%	30	25.0	500	0.22	971
1210-151K	0.15	± 10%	30	25.0	450	0.25	910
1210-181K	0.18	± 10%	30	25.0	400	0.28	860
1210-221K	0.22	± 10%	30	25.0	350	0.32	805
1210-271K	0.27	± 10%	30	25.0	320	0.36	759
1210-331K	0.33	± 10%	30	25.0	300	0.40	720
1210-391K	0.39	± 10%	30	25.0	250	0.45	679
1210-471K	0.47	± 10%	30	25.0	220	0.50	644
1210-561K	0.56	± 10%	30	25.0	180	0.55	614
1210-681K	0.68	± 10%	30	25.0	160	0.60	588
1210-821K	0.82	± 10%	30	25.0	140	0.67	556

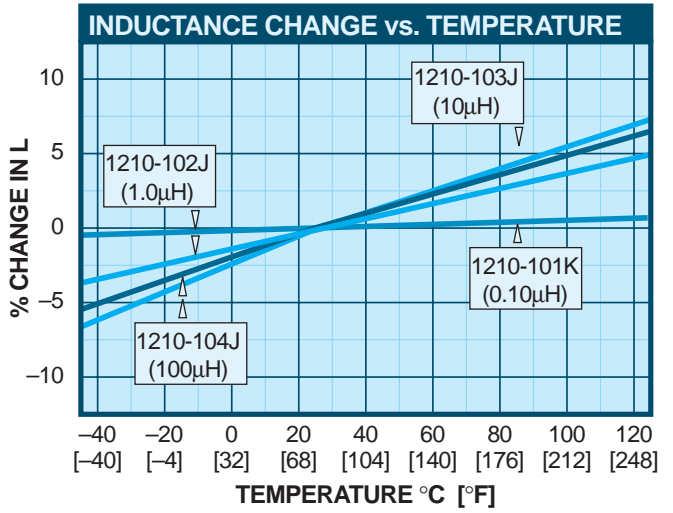
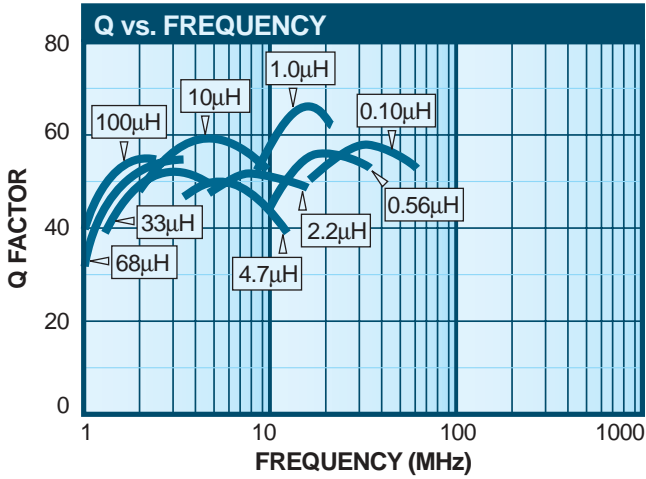
SERIES 1210 FERRITE CORE							
1210-102J	1.0	± 5%	30	7.9	120	0.70	515
1210-122J	1.2	± 5%	30	7.9	100	0.75	497
1210-152J	1.5	± 5%	30	7.9	85	0.85	467
1210-182J	1.8	± 5%	30	7.9	75	0.90	454
1210-222J	2.2	± 5%	30	7.9	70	1.0	431
1210-272J	2.7	± 5%	30	7.9	65	1.1	411
1210-332J	3.3	± 5%	30	7.9	58	1.2	393
1210-392J	3.9	± 5%	30	7.9	50	1.3	378
1210-472J	4.7	± 5%	30	7.9	45	1.5	352
1210-562J	5.6	± 5%	30	7.9	42	1.6	341
1210-682J	6.8	± 5%	30	7.9	40	1.8	321
1210-822J	8.2	± 5%	30	7.9	35	2.0	305
1210-103J	10	± 5%	30	7.9	30	2.1	297
1210-123J	12	± 5%	30	2.5	28	2.5	272
1210-153J	15	± 5%	30	2.5	25	2.8	257
1210-183J	18	± 5%	30	2.5	23	3.3	237
1210-223J	22	± 5%	30	2.5	20	3.7	224
1210-273J	27	± 5%	30	2.5	18	5.0	193
1210-333J	33	± 5%	30	2.5	15	5.6	182
1210-393J	39	± 5%	30	2.5	14	6.4	170
1210-473J	47	± 5%	30	2.5	13	7.0	163
1210-563J	56	± 5%	30	2.5	11	8.0	152
1210-683J	68	± 5%	30	2.5	10	9.0	144
1210-823J	82	± 5%	30	2.5	9	10.0	136
1210-104J	100	± 5%	30	2.5	8	13.0	120

Optional Tolerances: J = 5% H = 3% G = 2% F = 1%

RF INDUCTORS

# Series 1210

## Performance Graphs



For more detailed graphs, contact factory

