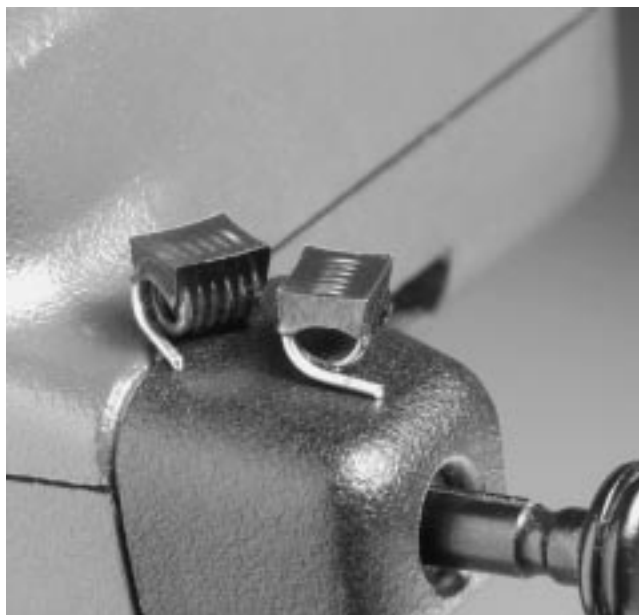


Midi Spring™ Surface Mount Inductors



This family of surface mount Midi Spring™ inductors is designed for higher current applications (up to 3.5 Amps) than our smaller series. It also provides higher Q factors at lower frequencies.

Like all Coilcraft “spring” inductors, these parts provide the advantages of an air core inductor in a package optimized for auto placement. The top of the coil is capped with acrylic, forming a flat surface and assuring mechanical stability. The leads are tinned for reliable soldering.

Designer's Kit C118 contains samples of all 5% tolerance parts. To order, contact Coilcraft or visit <http://order.coilcraft.com>.

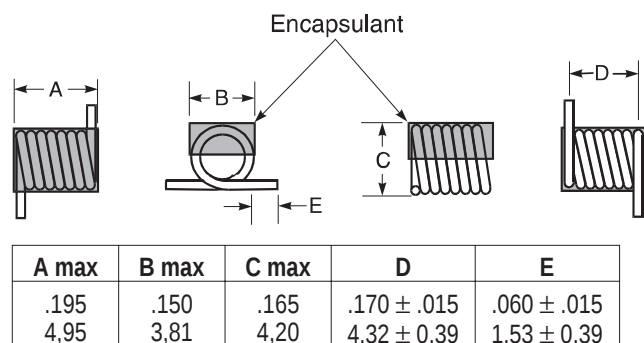
Specifications

Part Number ¹	Inductance ² (nH)	Percent Tolerance ³	Q ² Typ	Q ² Min	Test Freq. (MHz)	SRF ⁴ Min (GHz)	DCR ⁵ Max (mOhm)	I _{DC} ⁶ Max (A)
1812SMS-22N	22	5,2	135	100	150	3.2	4.2	3.0
1812SMS-27N	27	5,2	135	100	150	2.7	4.0	3.5
1812SMS-33N	33	5,2	130	100	150	2.5	4.8	3.0
1812SMS-39N	39	5,2	135	100	150	2.1	4.4	3.0
1812SMS-47N	47	5,2	135	100	150	2.1	5.6	3.0
1812SMS-56N	56	5,2	125	100	150	1.5	6.2	3.0
1812SMS-68N	68	5,2	120	100	150	1.5	8.2	2.5
1812SMS-82N	82	5,2	120	100	150	1.3	9.4	2.5
1812SMS-R10	100	5,2	115	100	150	1.2	12.3	1.7
1812SMS-R12	120	5,2	125	100	150	1.1	17.3	1.5

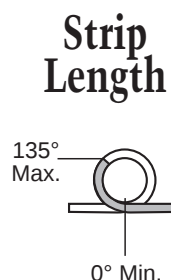
COILCRAFT ACCURATE
PRECISION REPEATABLE
DOC. 126 **TEST FIXTURES**

For environmental data see “Spring Inductors—Product Specifications” (Document 182).

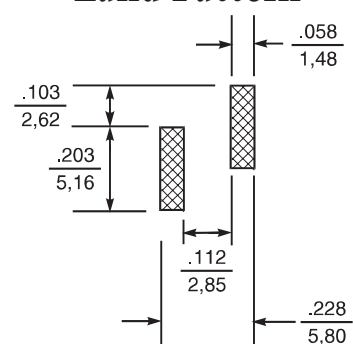
- When ordering, please add letter to specify inductance tolerance: **J=5%, G=2%**.
- Inductance and Q tested on the HP4291A with the 16193 fixture and correlation.
- Tolerances in bold are stocked for immediate shipment.
- SRF tested on the HP8753D and the SMD-D test fixture.
- DCR tested on the Cambridge Technology Model 510 Micro Ohmmeter.
- For 15°C rise.
- Operating temperature range -40°C to +125°C.
- Electrical specifications at 25°C.



Parts/reel: 7" 500 13" 2,000 Tape width: 12 mm
For packaging data see "Tape and Reel Specifications" (Document 173)



Land Pattern



Coilcraft

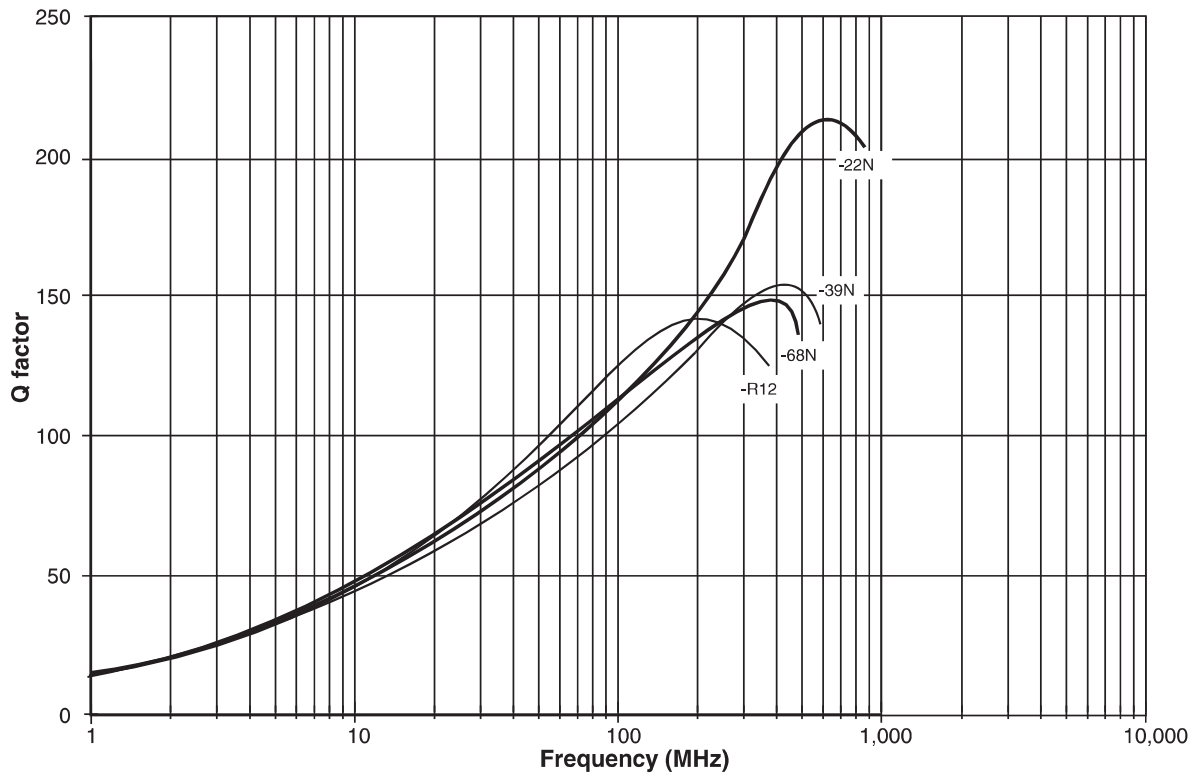
Specifications subject to change without notice. Document 184-1 Revised 8/26/99

1102 Silver Lake Road Cary, Illinois 60013 Phone 847/639-6400 Fax 847/639-1469
E-mail info@coilcraft.com Data by Fax 800/651-6974 Web <http://www.coilcraft.com>

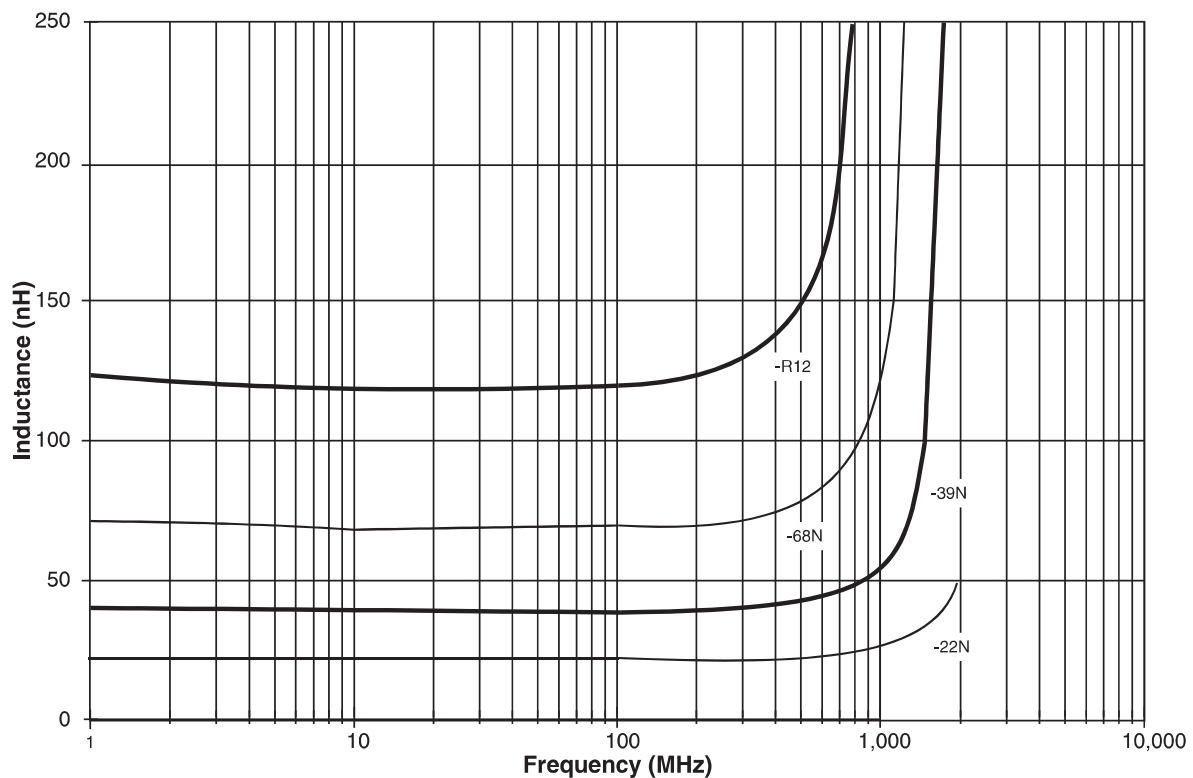
Midi Spring™ Air Core Inductors

Typical Q vs Frequency

S-Parameter files
ON OUR WEB SITE OR CD
PSPICE models
SEE DOC 158



Typical L vs Frequency



Coilcraft

Specifications subject to change without notice. Document 184-2 Revised 8/26/99

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