

Chip Inductors – 1008LS Series (2520)

These ferrite core surface mount inductors have lower RDC and higher current ratings than our 1008CS Series. They're available with inductance values from 1.2 to 10 μ H.

Coilcraft **Designer's Kit C136** contains samples of all 5% inductance tolerance parts. To order, contact Coilcraft or visit <http://order.coilcraft.com> to order on-line.

Part Number ¹	Inductance ² (μ H)	Percent Tolerance ³	Q Min ⁴	SRF Min ⁵ (MHz)	R _{DC} Max ⁶ (Ohms)	I _{DC} Max ⁷ (mA)
1008LS-122X_BC	1.2 @ 7.9 MHz	10,5	48 @ 50 MHz	210	.68	650
1008LS-152X_BC	1.5 @ 7.9 MHz	10,5	41 @ 50 MHz	190	.76	630
1008LS-182X_BC	1.8 @ 7.9 MHz	10,5	39 @ 50 MHz	170	.84	600
1008LS-222X_BC	2.2 @ 7.9 MHz	10,5	34 @ 50 MHz	150	1.10	520
1008LS-272X_BC	2.7 @ 7.9 MHz	10,5	34 @ 50 MHz	135	1.28	490
1008LS-332X_BC	3.3 @ 7.9 MHz	10,5	32 @ 50 MHz	120	1.46	450
1008LS-392X_BC	3.9 @ 7.9 MHz	10,5	32 @ 7.9 MHz	105	1.56	420
1008LS-472X_BC	4.7 @ 7.9 MHz	10,5	31 @ 7.9 MHz	90	1.68	400
1008LS-562X_BC	5.6 @ 7.9 MHz	10,5	31 @ 7.9 MHz	80	1.82	380
1008LS-682X_BC	6.8 @ 7.9 MHz	10,5	31 @ 7.9 MHz	70	2.00	360
1008LS-822X_BC	8.2 @ 7.9 MHz	10,5	23 @ 7.9 MHz	65	2.65	330
1008LS-103X_BC	10.0 @ 7.9 MHz	10,5	31 @ 7.9 MHz	60	2.95	300

- For environmental data see "Product Specifications" section (Document 121).
- For part marking data see "Color Coding" section (Document 174).

1. When ordering, please specify tolerance and packaging codes:

1008LS-103X_BC

Packaging

C = EIA RS-481 clear tape and reel (standard).
For orders of less than a full reel, there is a \$25 per reel charge to make them machine-ready.
B = Bulk. In a carrier tape but without leader or trailer.

Inductance tolerance

J=5%, **K**=10%
Table above shows stock tolerances in bold.

- Inductance measured using Coilcraft SMD-A fixture in HP4286A impedance analyzer with Coilcraft-provided correlation pieces. For recommended test procedures, contact Coilcraft.
- Tolerances in bold are stocked for immediate shipment.
- Q measured using HP4291A with HP16193 test fixture.
- SRF measured using HP8753D network analyzer with Coilcraft SMD-D fixture.
- R_{DC} measured on Cambridge Technology Micro-ohmmeter.
- For 15° C rise.
- Operating temperature range -40° C to +85° C.
- Electrical specifications at 25° C.

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

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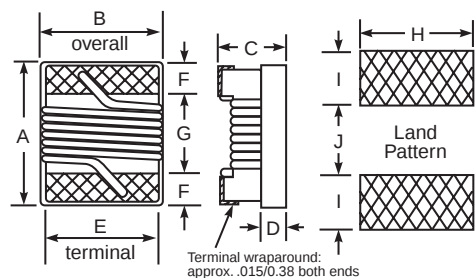
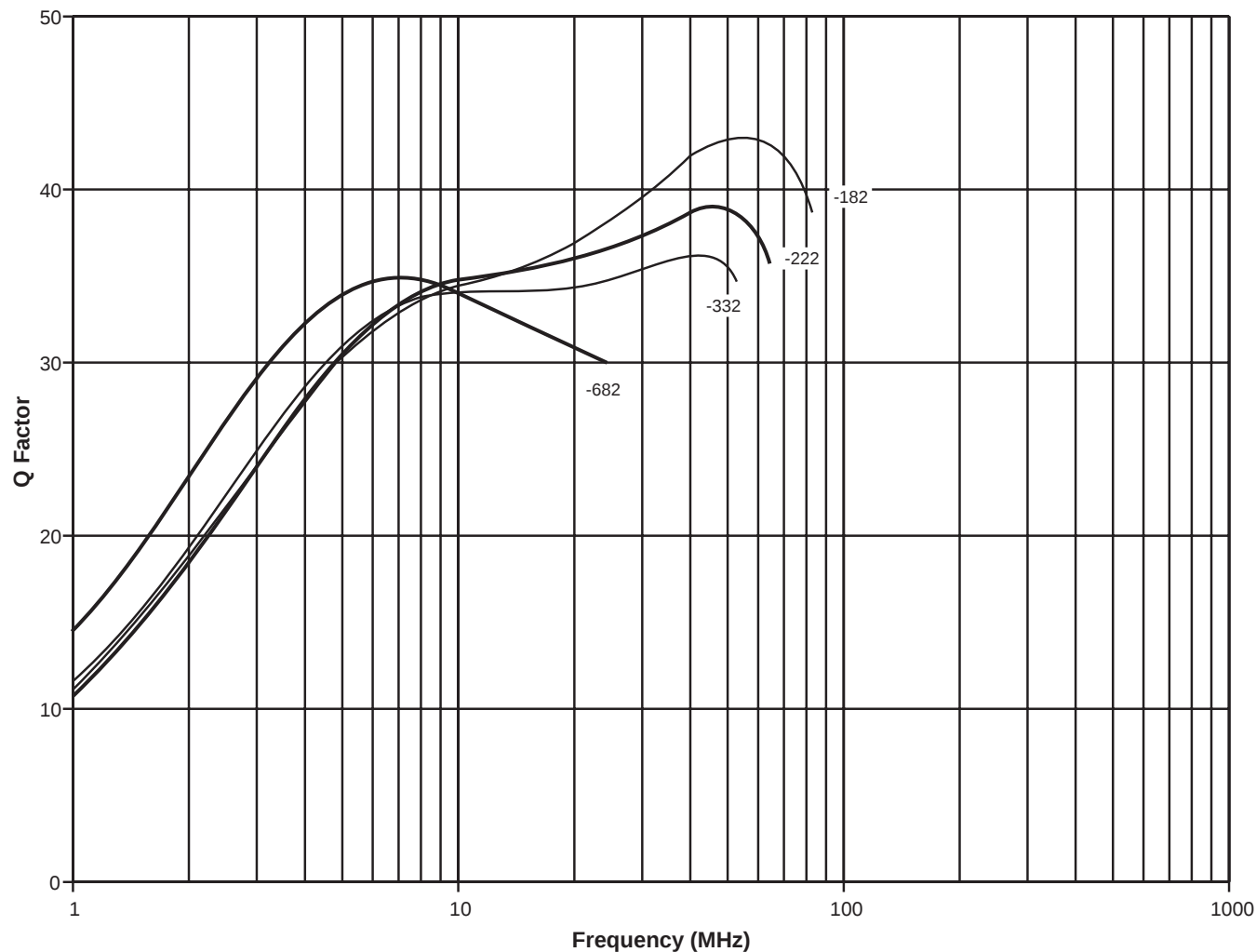
Specifications subject to change without notice. Document 103-1 Revised 4/5/99

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>

1008LS Series (2520)

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

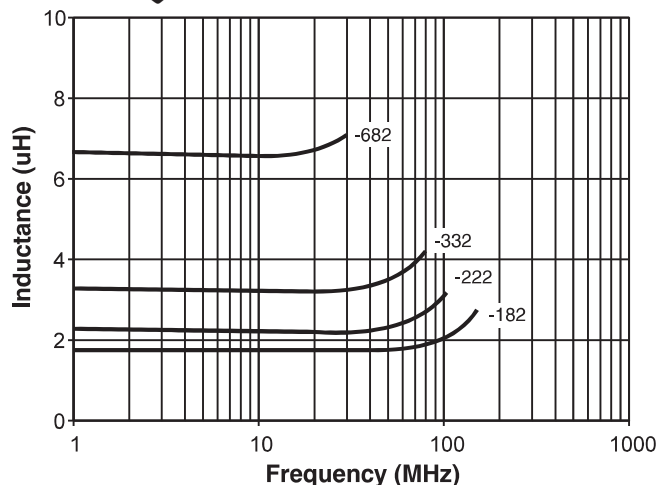
TYPICAL Q vs FREQUENCY



A	B	C	D	E	F	G	H	I	J
Max.	Max.	Max.	Ref.						
.115	.110	.080	.020	.080	.020	.060	.100	.040	.050
2.92	2.79	2.03	0.51	2.03	0.51	1.52	2.54	1.02	1.27

Parts/reel: 7" 2,000; 13" 7,500 Tape width: 8mm
For packaging data see "Tape and Reel Specifications" (Document 173)

L vs FREQUENCY



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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