



Chip Inductors - 0805LS Series (2012)

These ferrite core surface mount inductors have lower DCR and higher current ratings than our 0805CS Series. They come in inductance values from 0.078 to 27 μ H.

Coilcraft **Designer's Kit C154** contains samples of all 5% inductance tolerance parts. To order, contact Coilcraft or visit <http://order.coilcraft.com> to purchase on-line.

Part number ¹	Inductance ² (μ H)	Percent tolerance	Qmin ³	SRF min ⁴ (MHz)	DCR max ⁵ (Ohms)	Irms ⁶ (A)	Color code
0805LS-78NX_B_	0.078 @ 7.9 MHz	5,2	19 @ 7.9 MHz	1440	0.042	2.0	Black
0805LS-111X_B_	0.110 @ 7.9 MHz	5,2	19 @ 7.9 MHz	1200	0.05	2.0	Brown
0805LS-471X_B_	0.470 @ 7.9 MHz	5,2	19 @ 7.9 MHz	500	0.31	0.720	Red
0805LS-681X_B_	0.680 @ 7.9 MHz	5,2	20 @ 7.9 MHz	400	0.46	0.590	Orange
0805LS-102X_B_	1.0 @ 7.9 MHz	5,2	20 @ 7.9 MHz	340	0.69	0.500	Yellow
0805LS-152X_B_	1.5 @ 7.9 MHz	5,2	20 @ 7.9 MHz	275	0.83	0.490	Green
0805LS-182X_B_	1.8 @ 7.9 MHz	5,2	20 @ 7.9 MHz	246	1.15	0.410	Blue
0805LS-222X_B_	2.2 @ 7.9 MHz	5,2	20 @ 7.9 MHz	106	1.28	0.365	Brown
0805LS-272X_B_	2.7 @ 7.9 MHz	5,2	20 @ 7.9 MHz	105	1.48	0.350	Violet
0805LS-332X_B_	3.3 @ 7.9 MHz	5,2	20 @ 7.9 MHz	83	1.57	0.330	Gray
0805LS-392X_B_	3.9 @ 7.9 MHz	5,2	20 @ 7.9 MHz	52	1.70	0.300	White
0805LS-472X_B_	4.7 @ 7.9 MHz	5,2	20 @ 7.9 MHz	50	1.87	0.280	Black
0805LS-682X_B_	6.8 @ 7.9 MHz	5,2	20 @ 7.9 MHz	35	2.25	0.260	Brown
0805LS-822X_B_	8.2 @ 2.5 MHz	5,2	18 @ 2.5 MHz	27	2.55	0.250	Red
0805LS-103X_B_	10.0 @ 2.5 MHz	5,2	18 @ 2.5 MHz	21	3.45	0.200	Orange
0805LS-153X_B_	15.0 @ 2.5 MHz	5,2	18 @ 2.5 MHz	17	5.03	0.180	Yellow
0805LS-223X_B_	22.0 @ 2.5 MHz	5,2	18 @ 2.5 MHz	13	6.18	0.150	Green
0805LS-273X_B_	27.0 @ 2.5 MHz	5,2	15 @ 2.5 MHz	11	11.04	0.120	Blue

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

0805LS-273X **J B C**

Tolerance: G = 2% J = 5%

(Table shows stock tolerances in bold.)

Packaging: C = 7" machine-ready reel. EIA-481 embossed plastic tape (2000 parts per full reel).

B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter C instead.

2. Inductance measured using a Coilcraft SMD-A fixture in an Agilent/HP 4286A impedance analyzer.

3. Q measured on an Agilent/HP 4291A with an Agilent/HP 16193 test fixture.

4. SRF measured using an Agilent/HP 8753D network analyzer with a Coilcraft SMD-D test fixture.

5. DCR measured on a Cambridge Technology Micro-ohmmeter.

6. Average current for 15°C temperature rise above 25°C ambient.

7. Operating temperature range -40°C to +85°C.

8. Electrical specifications at 25°C.

See Qualification Standards section for environmental and test data.

COILCRAFT ACCURATE
PRECISION REPEATABLE
MEASUREMENTS
SEE INDEX **TEST FIXTURES**

Coilcraft[®]

Specifications subject to change without notice.

Please check our website for latest information. Document 288-1 Revised 11/12/04

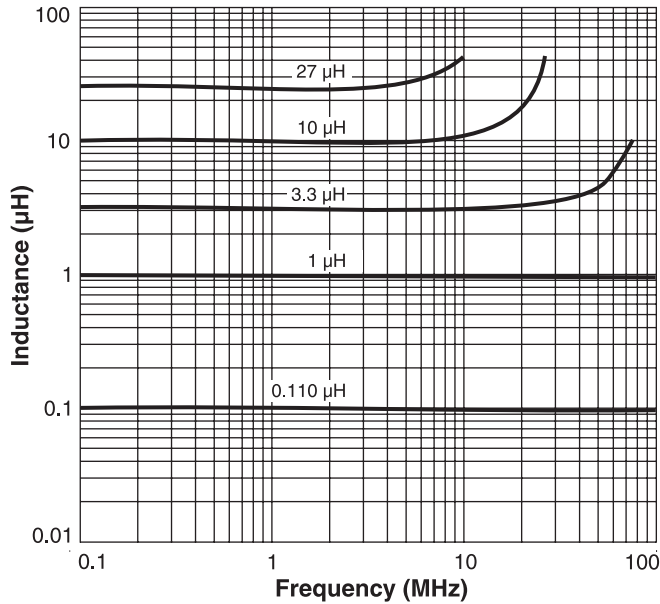
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0805LS Series Chip Inductors

Typical L vs Frequency



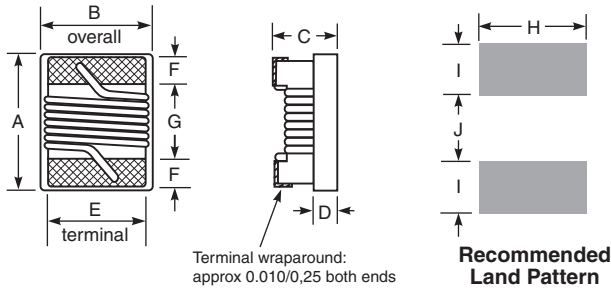
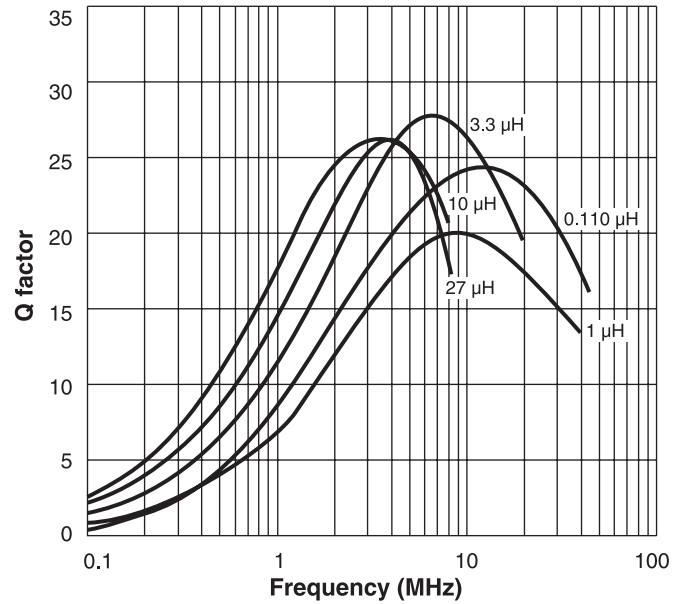
S-Parameter files

ON OUR WEB SITE OR CD

SPICE models

ON OUR WEB SITE OR CD

Typical Q vs Frequency



A max	B max	C max	D ref	E	F	G	H	I	J
0.090	0.075	0.063	0.020	0.050	0.020	0.040	0.070	0.040	0.030
2,29	1,91	1,60	0,51	1,27	0,51	1,02	1,78	1,02	0,76

Weight: 12.7 – 13.9 mg
Terminations: Platinum/palladium/silver
Tape and reel: 2000/7" reel 8 mm tape width
 For packaging data see Tape and Reel Specifications section.

Specifications subject to change without notice.
 Please check our website for latest information. Document 288-2 Revised 12/14/04

