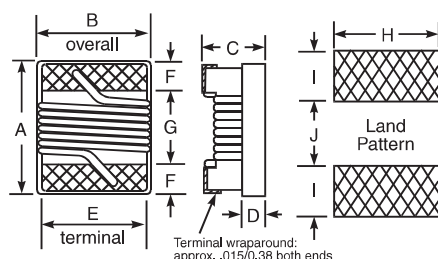


Chip Inductors -1812LS Series (4532)

High inductance in a standard 1812 footprint.

Coilcraft **Designer's Kit C114** contains samples of all 5% tolerance parts. To order, contact Coilcraft.



A	B	C	D	E	F	G	H	I	J
Max	Max	Max	Ref						
.195	.150	.135	.070	.100	.025	.128	.120	.045	.118
4.95	3.81	3.43	1.78	2.54	0.64	3.25	3.05	1.14	3.00

Parts/reel: 7" 600; 13" 2200 Tape width: 12mm
For packaging data see "Tape and Reel Specifications"
(Document 173)

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

S-Parameter files
ON OUR WEB SITE OR CD

PSPICE models
SEE DOC 158

Part Number ¹	Inductance ² (μ H)	Percent Tolerance ³	Q Min ⁴	Test Freq (MHz)	SRF Min ⁵ (MHz)	R _{DC} Max ⁶ (Ohms)	I _{DC} Max ⁷ (mA)
1812LS-123 X BC	12	10, 5	42	2.5	55	2.0	310
1812LS-153 X BC	15	10, 5	42	2.5	45	2.5	290
1812LS-183 X BC	18	10, 5	45	2.5	37	2.8	270
1812LS-223 X BC	22	10, 5	45	2.5	32	3.2	260
1812LS-273 X BC	27	10, 5	45	2.5	27	3.6	240
1812LS-333 X BC	33	10, 5	45	2.5	23	4.0	230
1812LS-393 X BC	39	10, 5	45	2.5	19	4.5	210
1812LS-473 X BC	47	10, 5	42	2.5	16	5.0	200
1812LS-563 X BC	56	10, 5	42	2.5	13	5.5	190
1812LS-683 X BC	68	10, 5	40	2.5	10	6.0	180
1812LS-823 X BC	82	10, 5	40	2.5	9	7.0	170
1812LS-104 X BC	100	10, 5	40	2.5	8.5	8.0	150
1812LS-124 X BC	120	10, 5	33	0.79	8.5	11.5	135
1812LS-154 X BC	150	10, 5	36	0.79	8.5	13.0	125
1812LS-184 X BC	180	10, 5	36	0.79	8.0	14.2	120
1812LS-224 X BC	220	10, 5	38	0.79	6.0	16.2	115
1812LS-274 X BC	270	10, 5	38	0.79	5.0	20.5	105
1812LS-334 X BC	330	10, 5	38	0.79	4.5	22.5	100
1812LS-394 X BC	390	10, 5	38	0.79	3.5	24.5	90
1812LS-474 X BC	470	10, 5	38	0.79	3.0	26.5	85
1812LS-564 X BC	560	10, 5	33	0.79	2.0	28.5	75
1812LS-684 X BC	680	10, 5	33	0.79	1.9	38.0	60
1812LS-824 X BC	820	10, 5	30	0.79	1.6	41.0	55
1812LS-105 X BC	1000	10, 5	30	0.79	1.5	44.0	50

1. When ordering, please specify tolerance and packaging codes: **1812LS-105X BC**

Inductance tolerance
J=5%, K=10%

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.

2. Inductance at 2.5 MHz measured using HP4286A and Coilcraft SMD-A fixture with Coilcraft-provided

correlation pieces. Inductance at 0.79 MHz measured using HP4192A and Coilcraft SMD-B test fixture with Coilcraft-provided correlation pieces.

3. Tolerances in bold are stocked for immediate shipment.

4. Q read directly on HP4192A LF impedance analyzer and Coilcraft SMD-B test fixture using Coilcraft supplied correlation pieces.

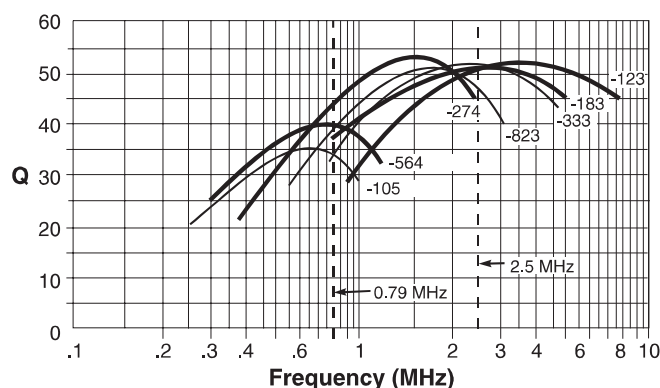
5. SRF measured using HP8753D network analyzer and Coilcraft SMD-D test fixture.

6. R_{DC} measured on Cambridge Technology Micro-ohmmeter.

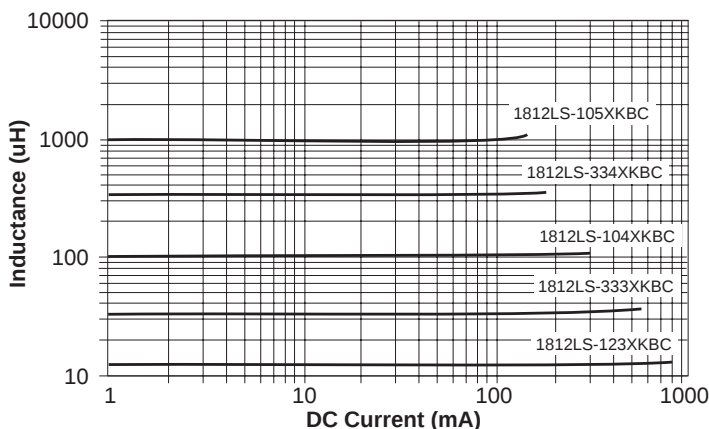
7. For 15°C rise.

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

Q vs FREQUENCY



SATURATING CURRENT



Coilcraft

Specifications subject to change without notice. Document 106 Revised 5/19/99

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