

**PRELIMINARY**

# Chip Inductors - 0603LS Series (1608)

These ferrite core surface mount inductors have lower DCR and higher current ratings than our 0603CS Series. They're available with inductance values from 47 to 8200 nH.

Coilcraft **Designer's Kit C147** contains samples of all standard parts shown. To order, contact Coilcraft or visit <http://order.coilcraft.com> to order on-line.

Part Number <sup>1</sup>	Inductance <sup>2</sup> (nH)	Percent Tolerance <sup>3</sup>	Q min <sup>4</sup>	SRF min <sup>5</sup> (MHz)	DCR max <sup>6</sup> (Ohms)	Color Code
0603LS-47NX_B_	47 @ 7.9 MHz	<b>10,5</b>	10	>1800	.04	Black
0603LS-72NX_B_	72 @ 7.9 MHz	<b>10,5</b>	16	>1800	.04	Brown
0603LS-101X_B_	100 @ 7.9 MHz	<b>10,5</b>	14	>1800	.04	Red
0603LS-121X_B_	120 @ 7.9 MHz	<b>10,5</b>	18	1470	.08	Orange
0603LS-151X_B_	150 @ 7.9 MHz	<b>10,5</b>	16	1460	.09	Yellow
0603LS-181X_B_	180 @ 7.9 MHz	<b>10,5</b>	17	1460	.10	Green
0603LS-241X_B_	240 @ 7.9 MHz	<b>10,5</b>	21	1140	.16	Violet
0603LS-271X_B_	270 @ 7.9 MHz	<b>10,5</b>	21	1050	.27	Grey
0603LS-331X_B_	330 @ 7.9 MHz	<b>10,5</b>	23	950	.32	White
0603LS-391X_B_	390 @ 7.9 MHz	<b>10,5</b>	23	860	.51	Black
0603LS-471X_B_	470 @ 7.9 MHz	<b>10,5</b>	23	815	.56	Brown
0603LS-561X_B_	560 @ 7.9 MHz	<b>10,5</b>	22	425	.44	Red
0603LS-681X_B_	680 @ 7.9 MHz	<b>10,5</b>	22	415	.52	Orange
0603LS-781X_B_	780 @ 7.9 MHz	<b>10,5</b>	23	640	.83	Yellow
0603LS-821X_B_	827 @ 7.9 MHz	<b>10,5</b>	23	550	.67	Green
0603LS-102X_B_	1000 @ 7.9 MHz	<b>10,5</b>	23	310	.81	Blue
0603LS-122X_B_	1200 @ 7.9 MHz	<b>10,5</b>	23	215	.87	Violet
0603LS-152X_B_	1500 @ 7.9 MHz	<b>10,5</b>	23	150	.96	Grey
0603LS-182X_B_	1800 @ 7.9 MHz	<b>10,5</b>	23	125	1.1	White
0603LS-222X_B_	2200 @ 7.9 MHz	<b>10,5</b>	23	95	1.2	Black
0603LS-272X_B_	2700 @ 7.9 MHz	<b>10,5</b>	23	90	1.3	Brown
0603LS-332X_B_	3300 @ 7.9 MHz	<b>10,5</b>	22	68	1.5	Red
0603LS-392X_B_	3900 @ 7.9 MHz	<b>10,5</b>	22	60	1.6	Orange
0603LS-472X_B_	4700 @ 7.9 MHz	<b>10,5</b>	24	55	2.1	Yellow
0603LS-562X_B_	5600 @ 7.9 MHz	<b>10,5</b>	24	50	2.6	Green
0603LS-782X_B_	7800 @ 7.9 MHz	<b>10,5</b>	26	37	3.5	Blue
0603LS-822X_B_	8200 @ 7.9 MHz	<b>10,5</b>	24	36	3.6	Violet

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

**Inductance tolerance code:**

Table above shows stock tolerances in bold.

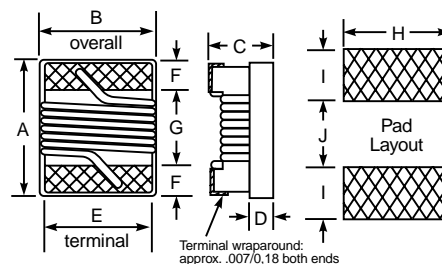
J= ±5%, K= ±10%

**0603LS-822X\_B\_**

**Packaging code:**

**C=7" machine-ready reel** EIA RS-481 clear plastic tape. 2000 per reel.

**B= Less than full reel** Not machine-ready. The carrier tape may not be a single continuous length. To have a leader and trailer added (\$25 charge), use code letter C instead.



- Inductance measured at 100 kHz, 0.1 Vrms, using Coilcraft SMD-A fixture in Agilent/HP 4286A impedance analyzer with Coilcraft-provided correlation pieces. For recommended test procedures, contact Coilcraft.
- Tolerances in bold are stocked for immediate shipment.
- Q measured on Agilent/HP4291A with Agilent/HP16193 test fixture.
- SRF measured using Agilent/HP8753D network analyzer with Coilcraft SMD-D test fixture.
- DCR measured on Cambridge Technology Micro-ohmmeter.
- Operating temperature range -40° C to +85° C.
- Electrical specifications at 25° C.
- For environmental data, see "Product Specifications" page (Doc. 121)

A max	B max	C max	D ref	E	F	G	H	I	J
.071	.048	.042	.015	.030	.013	.034	.040	.025	.025
1,80	1,22	1,07	0,38	0,76	0,33	0,86	1,02	0,64	0,64

Parts/reel: 7" 2000 Tape width: 8 mm

For packaging data see "Tape and Reel Specifications" (Document 173)

Specifications subject to change without notice. Document 264 Revised 11/13/01

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