



Chip Inductors - 0604HQ Series (1610)

The 0604HQ Series offers the highest Q factors and current handling capabilities of any inductor this small.

These parts combine the exceptionally high Q of an air core inductor with the rugged construction of a ceramic body component. They also provide intermediate induc-

tance values not available in Coilcraft's 0603, 0402 or 0906 product families.

Coilcraft **Designer's Kit C151** contains samples of all values shown. To order, contact Coilcraft or purchase it on-line at <http://order.coilcraft.com>.

Part number ¹	Inductance ² (nH)	Percent tolerance ³	Q min ⁴	900 MHz		1.7 GHz		SRF min ⁵ (GHz)	DCR max ⁶ (Ohms)	Irms ⁷ (A)	Color code
				L typ	Q typ	L typ	Q typ				
0604HQ-1N1X_B_	1.15	5	25	1.2	40	1.2	136	12.3	0.021	3.0	Black
0604HQ-2N6X_B_	2.6	5	45	2.6	78	2.6	163	9.3	0.026	2.0	Brown
0604HQ-4N5X_B_	4.5	5	50	4.5	103	4.7	155	5.8	0.032	1.8	Red
0604HQ-5N0X_B_	5.0	5	60	4.9	106	5.2	178	5.3	0.032	1.6	Orange
0604HQ-6N8X_B_	6.8	5	60	6.9	101	7.4	172	4.7	0.035	1.8	Yellow
0604HQ-7N6X_B_	7.6	5	60	7.4	109	7.9	137	4.4	0.035	1.5	Green
0604HQ-10NX_B_	10.4	5	60	10.6	103	11.5	160	4.1	0.037	1.5	Blue

1. When ordering, please specify **packaging** code:

0604HQ-10NXJB C

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 at 500 MHz using a Coilcraft SMD-A fixture in an Agilent/HP 4286 impedance analyzer.

3. Tolerances in bold are stocked for immediate shipment.

4. Q measured at 500 MHz using an Agilent/HP 4291A with an Agilent/HP 16193 test fixture.

5. For SRF less than 6 GHz, measured using an Agilent/HP 8753D network analyzer and a Coilcraft SMD-D test fixture. For SRF greater than 6 GHz, measured using an Agilent/HP 8722ES network analyzer and a Coilcraft SMD-D test fixture.

6. DCR measured on a Cambridge Technology micro-ohmmeter and a Coilcraft CCF858 test fixture.

7. Average current for a 15°C rise above 25°C ambient.

8. Operating temperature range -40°C to +125°C.

9. Electrical specifications at 25°C.

See Qualification Standards section for environmental and test data.

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

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Specifications subject to change without notice.

Please check our website for latest information. Document 285-1 Revised 02/09/05

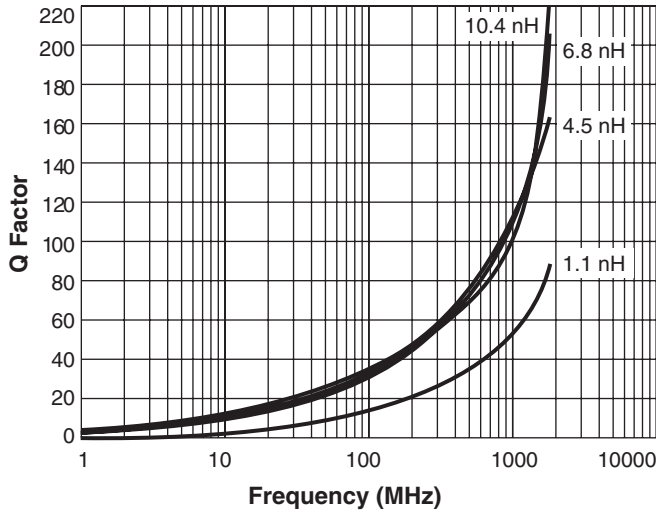
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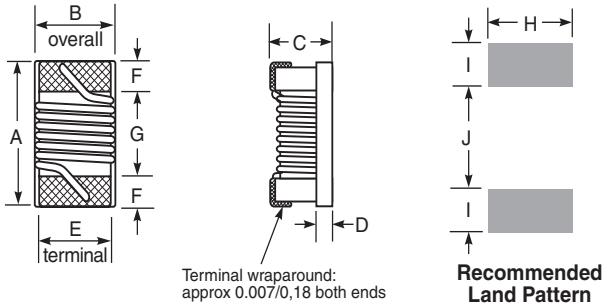
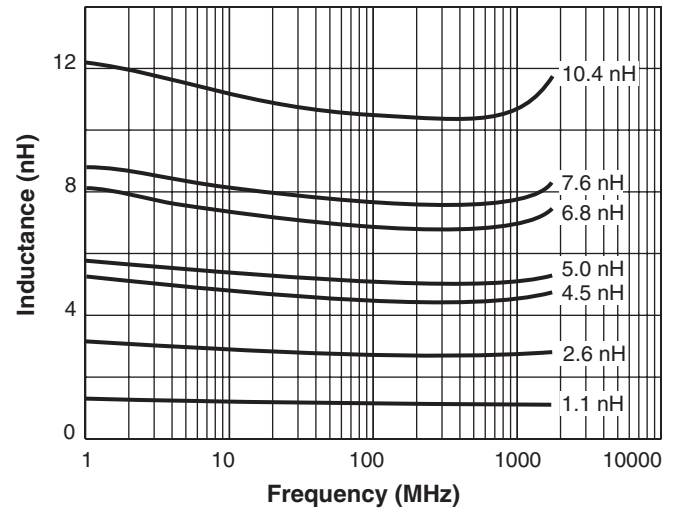
0604HQ Series (1610)

Typical Q vs Frequency



S-Parameter files
ON OUR WEB SITE OR CD
SPICE models
ON OUR WEB SITE OR CD

Typical L vs Frequency



A max	B max	C max	D ref	E	F	G	H	I	J
0.073	0.054	0.047	0.025	0.040	0.013	0.034	0.053	0.025	0.025
1,85	1,37	1,19	0,64	1,02	0,33	0,86	1,35	0,63	0,63

Weight: 4.6 – 5.6 mg
Terminations: Platinum/palladium/silver
Tape and reel: 2000/7" reel 8 mm tape width

For packaging data see Tape and Reel Specifications section.



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 Please check our website for latest information. Document 285-2 Revised 12/15/04

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