

NEW!

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. Custom values may be available.

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 (MHz)	DCR max ⁶ (Ohms)	I _{DC} max ⁷ (A)	Color code
				L typ	Q typ	L typ	Q typ				
0604HQ-1N1_X_	1.15 @ 500 MHz	10,5	25	1.2	40	1.2	136	6000	0.021	3.0	Black
0604HQ-2N6_X_	2.6 @ 500 MHz	10,5	45	2.6	78	2.6	163	6000	0.026	2.0	Brown
0604HQ-4N5_X_	4.5 @ 500 MHz	10,5	50	4.5	103	4.7	155	5800	0.032	1.8	Red
0604HQ-5N0_X_	5.0 @ 500 MHz	10,5	60	4.9	106	5.2	178	5300	0.032	1.6	Orange
0604HQ-6N8_X_	6.8 @ 500 MHz	10,5	60	6.9	101	7.4	172	4700	0.035	1.8	Yellow
0604HQ-7N6_X_	7.6 @ 500 MHz	10,5	60	7.4	109	7.9	137	4400	0.035	1.5	Green
0604HQ-10N_X_	10.4 @ 500 MHz	10,5	60	10.6	103	11.5	160	4100	0.037	1.5	Blue

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

Inductance tolerance code:

Table above shows stock tolerances in bold.

J= ±5%, K= ±10%

0604HQ-10N_X_

Packaging code:

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

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

2. Inductance measured using Coilcraft SMD-A fixture in Agilent/HP4286 impedance analyzer.

3. Tolerances in bold are stocked for immediate shipment.

4. Q measured at 500MHz using Agilent/HP4291A with Agilent/HP16193 test fixture and on Agilent/HP8753D with Coilcraft SMD-D test fixture.

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

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

7. For 15° C rise.

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

9. Electrical specifications at 25°C.

For environmental data see Product Specifications section.

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

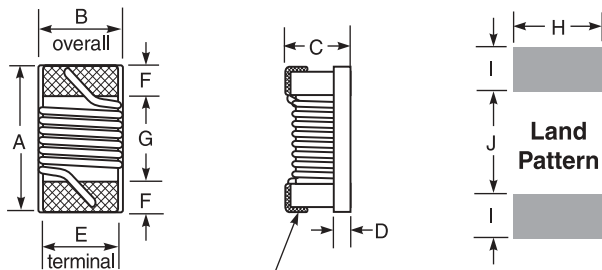
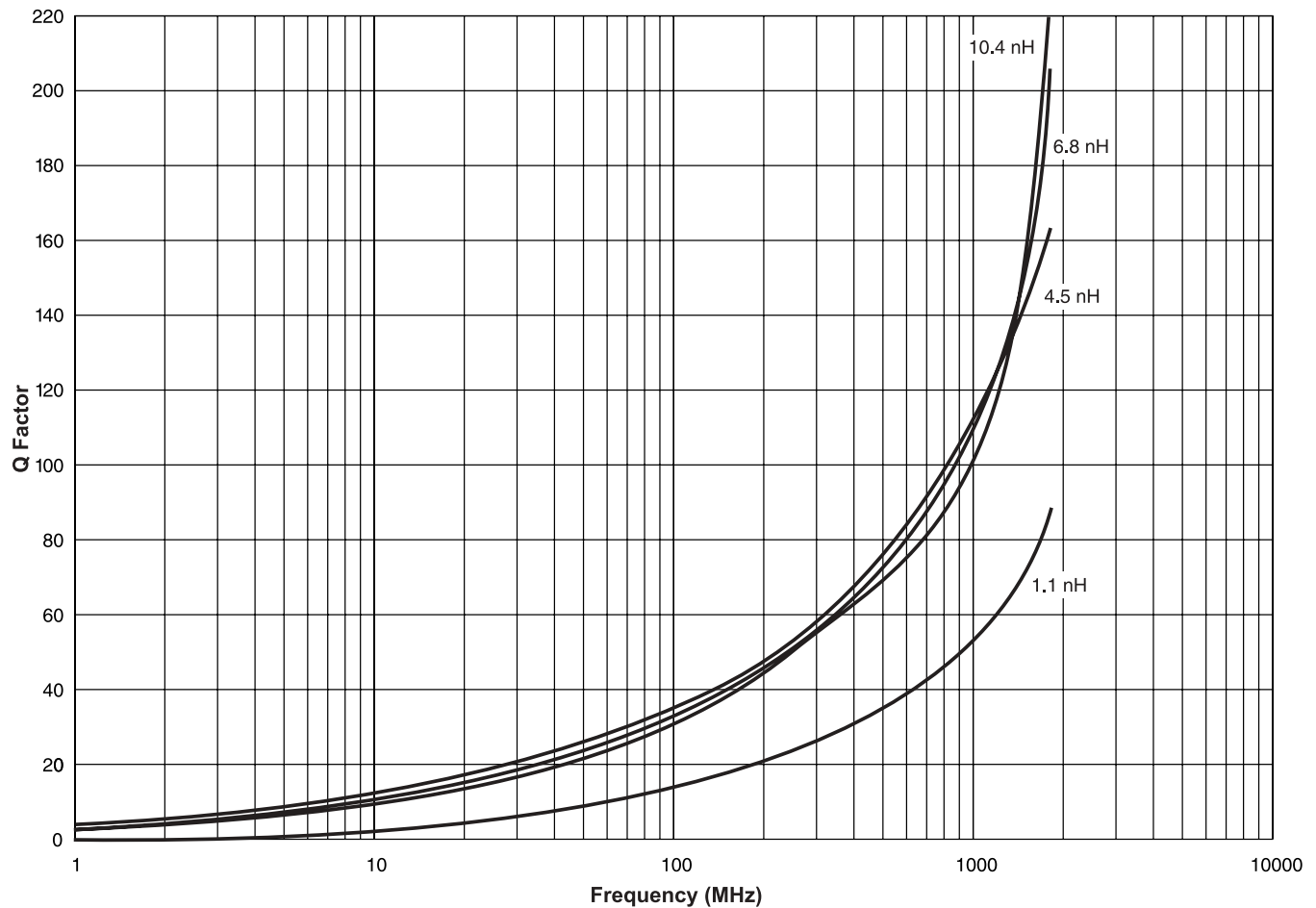
Specifications subject to change without notice. Document 285-1 Revised 9/3/02

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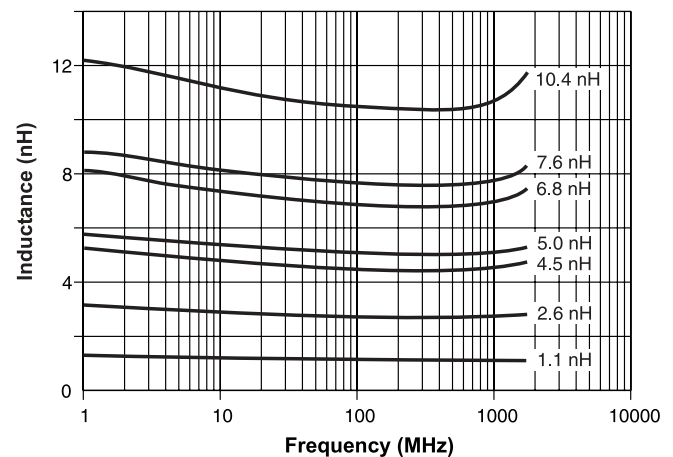
TYPICAL Q vs FREQUENCY



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

Parts/reel: 7" 2000 Tape width: 8 mm
For packaging data see Tape and Reel Specifications section.

TYPICAL L vs FREQUENCY



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