

**NEW!**

Chip Inductors - 0403HQ Series (1008)

The 0403HQ Series is a low profile wirewound ceramic chip inductor that offers significantly higher Q factors and current handling capability than our 0603CS Series, in a footprint that's half the size!

In addition, this series provides intermediate inductance

values not available in our 0603, 0402 or "Micro Spring" product families. Custom values are also available.

Coilcraft **Designer's Kit C171** contains samples of all the standard parts shown. To order, contact Coilcraft or visit <http://order.coilcraft.com>.

Part number ¹	Inductance ² (nH)	Percent tolerance	Q min ³	900 MHz		1.7 GHz		SRF typ ⁴ (GHz)	DCR max ⁵ (Ohms)	Irms ⁶ (A)
				L typ	Q typ	L typ	Q typ			
0403HQ-1N9XJB_	1.9	5	40	1.9	62	1.9	94	11.84	0.012	2.2
0403HQ-2N1XJB_	2.1	5	35	2.1	56	2.1	88	12.40	0.019	1.8
0403HQ-3N4XJB_	3.4	5	40	3.4	66	3.5	96	8.97	0.016	1.9
0403HQ-3N7XJB_	3.7	5	40	3.7	64	3.8	95	8.65	0.018	1.8
0403HQ-5N5XJB_	5.5	5	40	5.5	62	5.7	93	8.60	0.022	1.5
0403HQ-6N6XJB_	6.6	5	40	6.6	60	6.9	92	7.30	0.046	1.1
0403HQ-8N2XJB_	8.2	5	40	8.2	63	8.5	92	6.73	0.040	1.2
0403HQ-9N0XJB_	9.0	5	40	9.1	66	9.5	90	6.85	0.055	1.0
0403HQ-12NXJB_	12.0	5	40	12.1	60	12.7	90	5.82	0.065	0.80
0403HQ-15NXJB_	15.0	5	35	15.2	60	16.0	90	5.82	0.188	0.50
0403HQ-18NXJB_	18.0	5	35	18.2	62	19.6	93	5.15	0.185	0.50

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

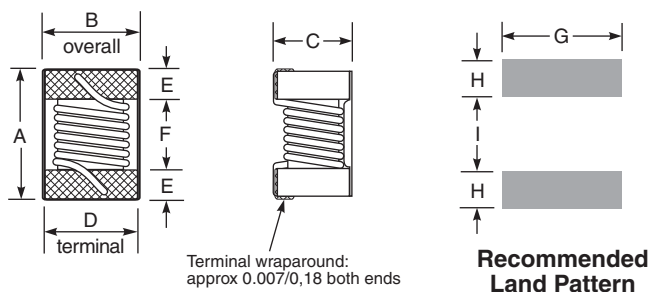
0403HQ-18NXJB W

Packaging: W = 7" machine-ready reel. EIA-481 punched paper tape (2000 parts per full reel).

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

- Inductance measured at 500 MHz using a Coilcraft SMD-F fixture in an Agilent/HP 4286 impedance analyzer.
- Q measured at 500 MHz using an Agilent/HP 4291A with an Agilent/HP 16193 test fixture.
- SRF measured using an Agilent/HP 8722ES network analyzer and a test fixture with a 0.017" air gap.
- DCR measured on a micro-ohmmeter and a Coilcraft CCF858 test fixture.
- Average current for a 30°C temperature rise from 25°C ambient.
- Storage and operating temperature range -40°C to +125°C.
- Electrical specifications at 25°C.

See Qualification Standards section for environmental and test data.



A max	B max	C max	D	E	F	G	H	I
0.047	0.034	0.028	0.030	0.009	0.022	0.040	0.014	0.018
1,19	0,86	0,71	0,76	0,23	0,56	1,02	0,36	0,46

Terminations: Platinum/palladium/silver

Tape and reel: 2000/7" reel 8 mm tape width

For packaging data see Tape and Reel Specifications section.

Coilcraft®

Specifications subject to change without notice.

Please check our website for latest information. Document 300-1 Revised 12/15/04

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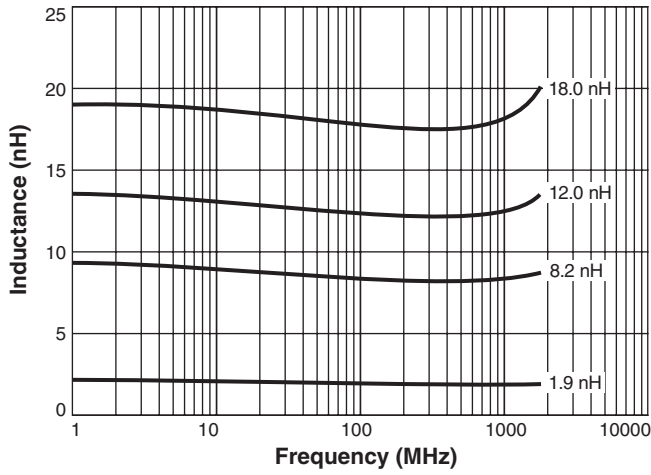
NEW!



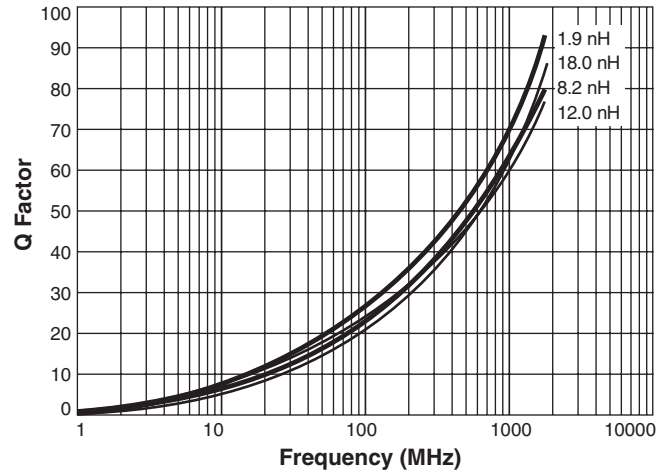
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S-Parameter files
ON OUR WEB SITE OR CD
SPICE models
ON OUR WEB SITE OR CD

Typical L vs Frequency



Typical Q vs Frequency



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Please check our website for latest information. Document 300-2 Revised 02/12/04

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