



Chip Inductors– 1008HQ (2520)

- Highest Q factors of any Coilcraft chip this body size, roughly 20% higher than our popular 1008CS and HS parts.
- Exceptional SRFs, tight tolerance and batch consistency

Coilcraft **Designer's Kit C323** contains samples of all 5% inductance tolerance parts. Kits with 2% tolerance are also available. To order, contact Coilcraft or purchase on-line at <http://order.coilcraft.com>.

Part number ¹	Inductance ³ (nH)	Percent tolerance ⁴	Q min ⁵	SRF min ⁶ (GHz)	DCR max ⁷ (Ohms)	Irms ⁸ (A)
1008HQ-3N0X_L_2	3.0 @ 50 MHz	5	70 @ 1500 MHz	8.10	0.04	1.6
1008HQ-4N1X_L_	4.1 @ 50 MHz	5	75 @ 1500 MHz	6.20	0.05	1.6
1008HQ-7N8X_L_2	7.8 @ 50 MHz	5	75 @ 500 MHz	3.80	0.05	1.6
1008HQ-10NX_L_	10 @ 50 MHz	5,2	60 @ 500 MHz	3.60	0.06	1.6
1008HQ-12NX_L_	12 @ 50 MHz	5,2	70 @ 500 MHz	2.80	0.06	1.5
1008HQ-18NX_L_	18 @ 50 MHz	5,2,1	62 @ 350 MHz	2.70	0.07	1.4
1008HQ-22NX_L_	22 @ 50 MHz	5,2	62 @ 350 MHz	2.05	0.07	1.4
1008HQ-33NX_L_	33 @ 50 MHz	5,2	75 @ 350 MHz	1.70	0.09	1.3
1008HQ-36NX_L_	36 @ 50 MHz	5,2	65 @ 350 MHz	1.40	0.09	1.3
1008HQ-39NX_L_	39 @ 50 MHz	5,2	75 @ 350 MHz	1.30	0.09	1.3
1008HQ-47NX_L_	47 @ 50 MHz	5,2,1	75 @ 350 MHz	1.45	0.12	1.2
1008HQ-56NX_L_	56 @ 50 MHz	5,2,1	75 @ 350 MHz	1.23	0.12	1.2
1008HQ-68NX_L_	68 @ 50 MHz	5,2,1	80 @ 350 MHz	1.15	0.13	1.1
1008HQ-82NX_L_	82 @ 50 MHz	5,2	80 @ 350 MHz	1.06	0.16	1.1
1008HQ-R10X_L_	100 @ 50 MHz	5,2	62 @ 350 MHz	0.82	0.16	1.0

1. When ordering, specify **tolerance, termination and packaging** codes:

1008HQ-R10XGLC

Tolerance: F = 1% G = 2% J = 5%

(Table shows stock tolerances in bold.)

Termination: L = RoHS compliant silver-palladium-platinum-glass frit.
Special order: T = RoHS tin-silver-copper (95.5/4/0.5) or S = non-RoHS tin-lead (63/37).

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.

D = 13" machine-ready reel. EIA-481 embossed plastic tape Factory order only, not stocked (7500 parts per full reel).

- Part is wound on low profile coilform.
- Inductance measured using a Coilcraft SMD-A fixture in an Agilent/HP 4286A impedance analyzer with Coilcraft-provided correlation pieces.
- Tolerances in bold are stocked for immediate shipment.
- Q measured using an Agilent/HP 4291A with an Agilent/HP 16193 test fixture.
- 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.
- DCR measured on a Cambridge Technology micro-ohmmeter and a Coilcraft CCF840 test fixture.
- Current that causes a 15°C temperature rise from 25°C ambient.
- Electrical specifications at 25°C.

For part marking data, visit <http://www.coilcraft.com/colrcode.cfm>.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

Core material Ceramic

Terminations RoHS compliant silver-palladium-platinum-glass frit. Other terminations available at additional cost.

Weight 32.4–35.7 mg; 17.1–17.7 mg (Low profile parts)

Ambient temperature –40°C to +125°C with Irms current, +125°C to +140°C with derated current

Storage temperature Component: –40°C to +140°C. Tape and reel packaging: –40°C to +80°C

Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

Temperature Coefficient of Inductance (TCL) +25 to +125 ppm/°C

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

Failures in Time (FIT) / Mean Time Between Failures (MTBF)

One per billion hours / one billion hours, calculated per Telcordia SR-332

Packaging 2000/7" reel; 7500/13" reel

Standard height parts: Plastic tape: 8 mm wide, 0.23 mm thick, 4 mm pocket spacing, 1.8 mm pocket depth

Low profile parts: Plastic tape: 8 mm wide, 0.3 mm thick, 4 mm pocket spacing, 1.6 mm pocket depth

PCB washing Tested with pure water or alcohol only. For other solvents, see Doc787_PCB_Washing.pdf.



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Document 190-1 Revised 01/18/12

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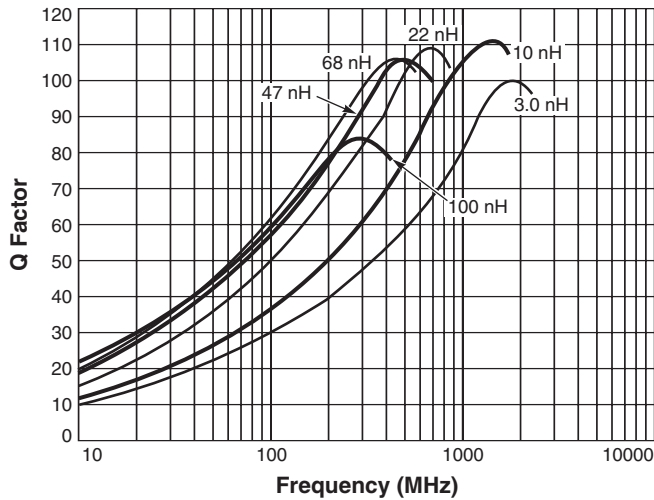
This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice. Please check web site for latest information.

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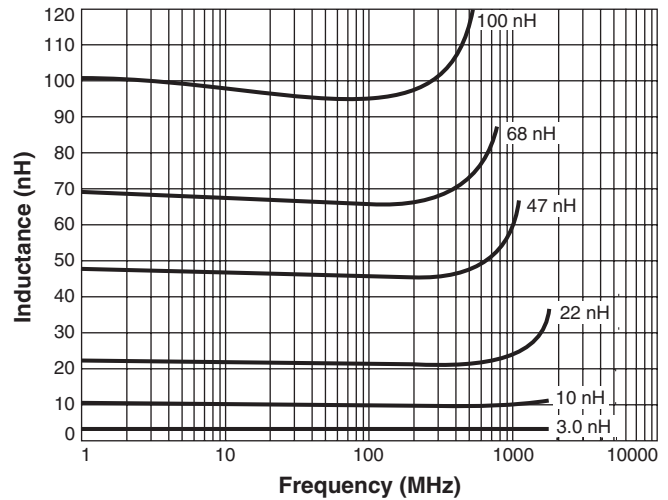


Chip Inductors – 1008HQ Series (2520)

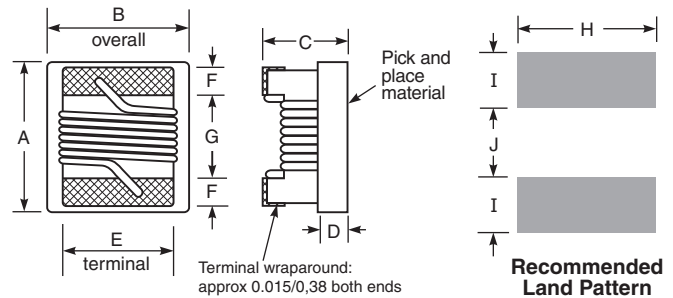
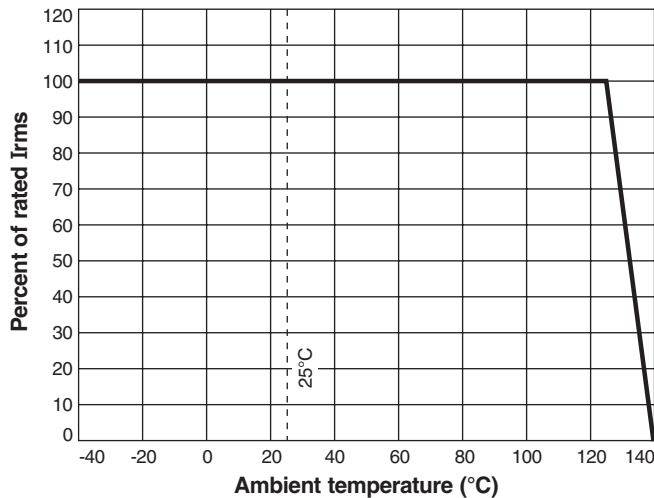
Typical Q vs Frequency



Typical L vs Frequency



Irms Derating



A	B	C	D	E	F	G	H	I	J
max	max	max*	ref						
0.115	0.110	0.080	0.020	0.080	0.020	0.060	0.100	0.040	0.050
2,92	2,79	2,03	0,51	2,03	0,51	1,52	2,54	1,02	1,27

* Low profile parts: 0.050/1,27

Height dimension (C) is before optional solder application. For maximum height dimension including solder, add 0.006 in / 0,152 mm.

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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