



Chip Inductors – 1008CT (2520)

The 0.055" profile makes these parts ideal for low clearance applications. Their simple construction ensures high reliability and stability, and they feature much higher

SRF values than ferrite alternatives. For free evaluation samples, visit www.coilcraft.com or contact Coilcraft.

Part number ¹	Inductance ² (nH)	Percent ³ tolerance	Q min ⁴	SRF min ⁵ (MHz)	DCR max ⁶ (Ohms)	Irms ⁷ (mA)
1008CT-040X_L_	4.7 @ 50 MHz	5	28 @ 500 MHz	7500	0.15	600
1008CT-080X_L_	8.2 @ 50 MHz	5,2	40 @ 500 MHz	5000	0.22	600
1008CT-100X_L_	10 @ 50 MHz	5	40 @ 500 MHz	2700	0.25	600
1008CT-150X_L_	15 @ 50 MHz	5,2	40 @ 500 MHz	3000	0.22	600
1008CT-200X_L_	20 @ 50 MHz	5,2	50 @ 500 MHz	2400	0.33	600
1008CT-300X_L_	30 @ 50 MHz	5,2	50 @ 500 MHz	2400	0.38	600
1008CT-400X_L_	40 @ 50 MHz	5,2	60 @ 500 MHz	2000	0.43	600
1008CT-500X_L_	50 @ 50 MHz	5,2	60 @ 500 MHz	1900	0.48	600
1008CT-600X_L_	60 @ 50 MHz	5,2,1	60 @ 500 MHz	1800	0.52	600
1008CT-700X_L_	70 @ 50 MHz	5,2,1	60 @ 500 MHz	1700	0.55	510
1008CT-800X_L_	80 @ 50 MHz	5,2,1	60 @ 500 MHz	1400	0.56	510
1008CT-900X_L_	90 @ 50 MHz	5,2	65 @ 500 MHz	1400	0.61	500
1008CT-101X_L_	100 @ 50 MHz	5,2	60 @ 500 MHz	1000	0.63	480

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

1008CT-101XJLC

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

(Table shows stock tolerances in bold.)

Termination: L = RoHS compliant silver-palladium-platinum-glass frit.

E = Halogen free component. RoHS compliant silver-palladium-platinum-glass frit terminations.

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 (7500 parts per full reel).

2. Inductance measured using a Coilcraft SMD-A fixture in an Agilent/HP 4286A impedance analyzer with Coilcraft-provided correlation pieces.

3. Tolerances in bold are stocked for immediate shipment.

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

5. SRF measured using an Agilent/HP 8720D network analyzer and a Coilcraft SMD-D test fixture.

6. DCR measured on a Cambridge Technology micro-ohmmeter and a Coilcraft CCF840 test fixture.

7. Current that causes a 15°C temperature rise from 25°C ambient.

8. Electrical specifications at 25°C.

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

Core material Ceramic

Environmental RoHS compliant, halogen free optional

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

Weight 17.8– 17.8 mg

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

PCB washing Only pure water or alcohol recommended



www.coilcraft.com

US +1-847-639-6400 sales@coilcraft.com

UK +44-1236-730595 sales@coilcraft-europe.com

Taiwan +886-2-2264 3646 sales@coilcraft.com.tw

China +86-21-6218 8074 sales@coilcraft.com.cn

Singapore + 65-6484 8412 sales@coilcraft.com.sg

Document 102-1 Revised 01/18/12

© Coilcraft Inc. 2012

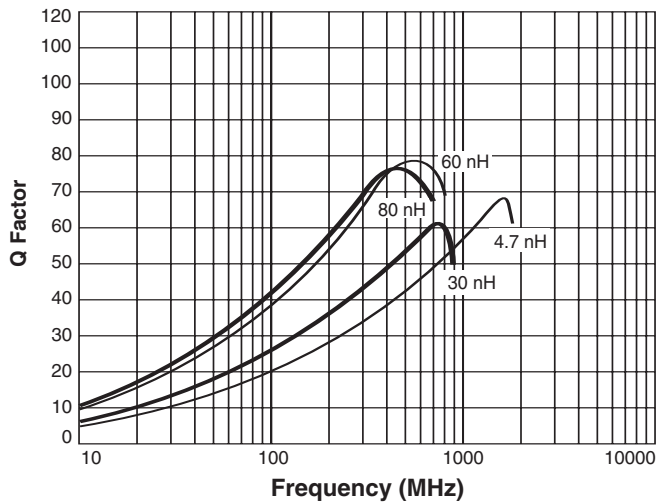
This product may not be used in medical of high risk applications without prior Coilcraft approval. Specification subject to change without notice. Please check out web site for latest information.

COILCRAFT ACCURATE
PRECISION REPEATABLE
MEASUREMENTS
SEE WEB SITE **TEST FIXTURES**

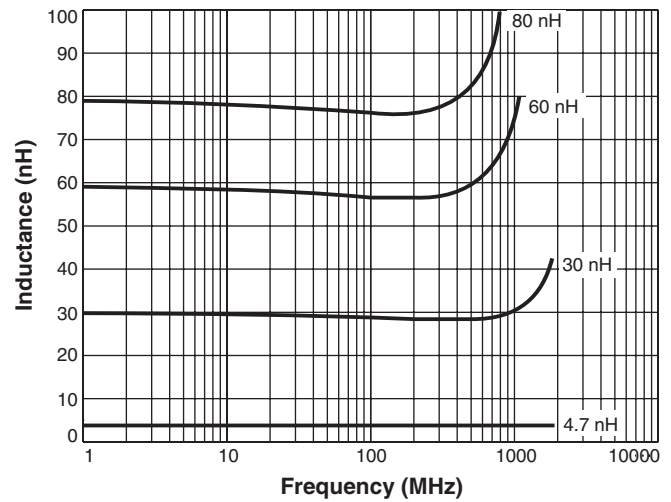


1008CT Series (2520)

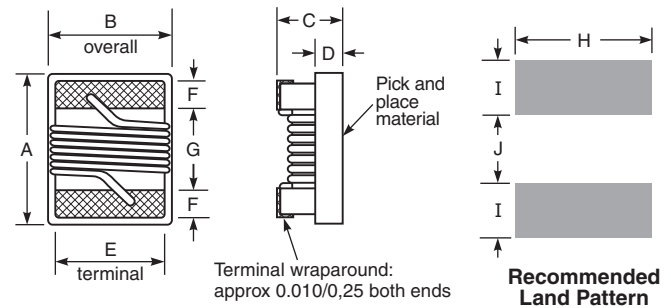
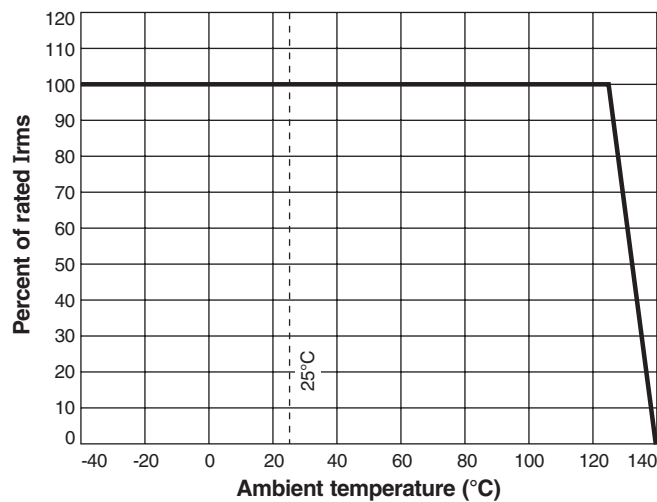
Typical Q vs Frequency



Typical L vs Frequency



Irms Derating



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

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

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9