Chip Inductors – 1008CT Series (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_B_	4.7 @ 50 MHz	20,10,**5**	28 @ 500 MHz	7500	0.15	600
1008CT-080X_B_	8.2 @ 50 MHz	20,10,**5,2**	40 @ 500 MHz	5000	0.22	600
1008CT-100X_B_	10 @ 50 MHz	20,10,**5**	40 @ 500 MHz	2700	0.25	600
1008CT-150X_B_	15 @ 50 MHz	20,10,**5,2**	40 @ 500 MHz	3000	0.22	600
1008CT-200X_B_	20 @ 50 MHz	20,10,**5,2**	50 @ 500 MHz	2400	0.33	600
1008CT-300X_B_	30 @ 50 MHz	20,10,**5,2**	50 @ 500 MHz	2400	0.38	600
1008CT-400X_B_	40 @ 50 MHz	20,10,**5,2**	60 @ 500 MHz	2000	0.43	600
1008CT-500X_B_	50 @ 50 MHz	10,**5,2**	60 @ 500 MHz	1900	0.48	600
1008CT-600X_B_	60 @ 50 MHz	10,**5,2**,1	60 @ 500 MHz	1800	0.52	600
1008CT-700X_B_	70 @ 50 MHz	10,**5,2**,1	60 @ 500 MHz	1700	0.55	510
1008CT-800X_B_	80 @ 50 MHz	10,**5,2**,1	60 @ 500 MHz	1400	0.56	510
1008CT-900X_B_	90 @ 50 MHz	10,**5,2**	65 @ 500 MHz	1400	0.61	500
1008CT-101X_B_	100 @ 50 MHz	10,**5,2**	60 @ 500 MHz	1000	0.63	480

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

1008CT-101X J B C

Tolerance: **F** = 1% **G** = 2% **J** = 5% **K** = 10% **M** = 20%
(Table shows stock tolerances in bold.)

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. 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.
For part marking data see Color Coding section.

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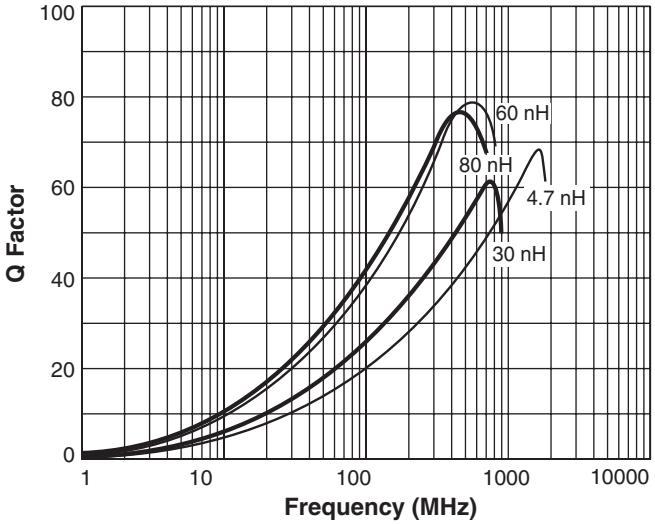
S-Parameter files
ON OUR WEB SITE OR CD

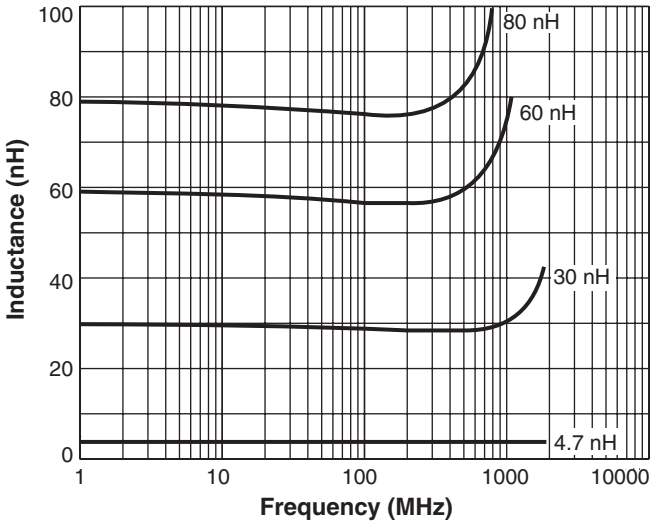
SPICE models
ON OUR WEB SITE OR CD

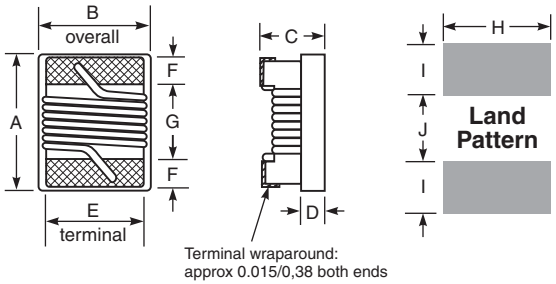
1008CT Series (2520)

Typical Q vs Frequency



Typical L vs Frequency





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

Weight: 17.1 – 17.8 mg
Terminations: Platinum/palladium/silver
Tape and reel: 2000/7″ reel; 7500/13″ reel 8 mm tape width
For packaging data see Tape and Reel Specifications section.

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