Chip Inductors–1008CT Series (2520)

The .055″ profile makes these parts ideal for low clearance applications.

Simple construction assures high reliability and stability. Much higher SRF than ferrite alternatives.

Part Number[1]	Inductance[2] (nH)	Percent[3] Tolerance	Q Min[4]	SRF Min[5] (MHz)	R_{DC} Max[6] (Ohms)	I_{DC} Max[7] (mA)
1008CT-040X_BC	4.7 @ 50 MHz	**20,10,5**	42 @ 500 MHz	7500	.15	600
1008CT-080X_BC	8.2 @ 50 MHz	**20,10,5**	50 @ 500 MHz	5000	.22	600
1008CT-150X_BC	15 @ 50 MHz	**20,10,5**	57 @ 500 MHz	3000	.22	600
1008CT-200X_BC	20 @ 50 MHz	**20,10,5**	72 @ 500 MHz	2400	.33	600
1008CT-300X_BC	30 @ 50 MHz	**20,10,5**	69 @ 500 MHz	2400	.38	600
1008CT-400X_BC	40 @ 50 MHz	**20,10,5**	67 @ 500 MHz	2000	.43	600
1008CT-500X_BC	50 @ 50 MHz	**10,5,**2	72 @ 500 MHz	1900	.48	600
1008CT-600X_BC	60 @ 50 MHz	**10,5,**2	75 @ 500 MHz	1800	.52	600
1008CT-700X_BC	70 @ 50 MHz	**10,5,**2	68 @ 500 MHz	1700	.55	510
1008CT-800X_BC	80 @ 50 MHz	**10,5,**2	75 @ 500 MHz	1400	.56	510
1008CT-900X_BC	90 @ 50 MHz	**10,5,**2	85 @ 500 MHz	1400	.61	500

• For environmental data see “Product Specifications” section (Document 121).
• For part marking data see “Color Coding” section (Document 174).

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

1008CT-900X_BC

Packaging
C = EIA RS-481 clear tape and reel (standard). For orders of less than a full reel, there is a $25 per reel charge to make them machine-ready.
B = Bulk. In a carrier tape but without leader or trailer.

Inductance tolerance
G=2%, **J**=5%, **K**=10%, **M**=20%
Table above shows stock tolerances in bold. Other tolerances shown are available on special order.

2. Inductance measured using Coilcraft SMD-A fixture in HP4286A impedance analyzer with Coilcraft-provided correlation pieces. For recommended test procedures, contact Coilcraft.
3. Tolerances in bold are stocked for immediate shipment.
4. Q measured using HP4291A with HP16193 test fixture and on HP8753D with Coilcraft SMD-D test fixture.
5. SRF measured using HP8753D network analyzer and Coilcraft SMD-D test fixture.
6. R_{DC} measured on Cambridge Technology micro-ohmmeter and Coilcraft CCF 840 test fixture.
7. For 15°C rise.
8. Operating temperature range –40° to +125°C.
9. Electrical specifications at 25°C.

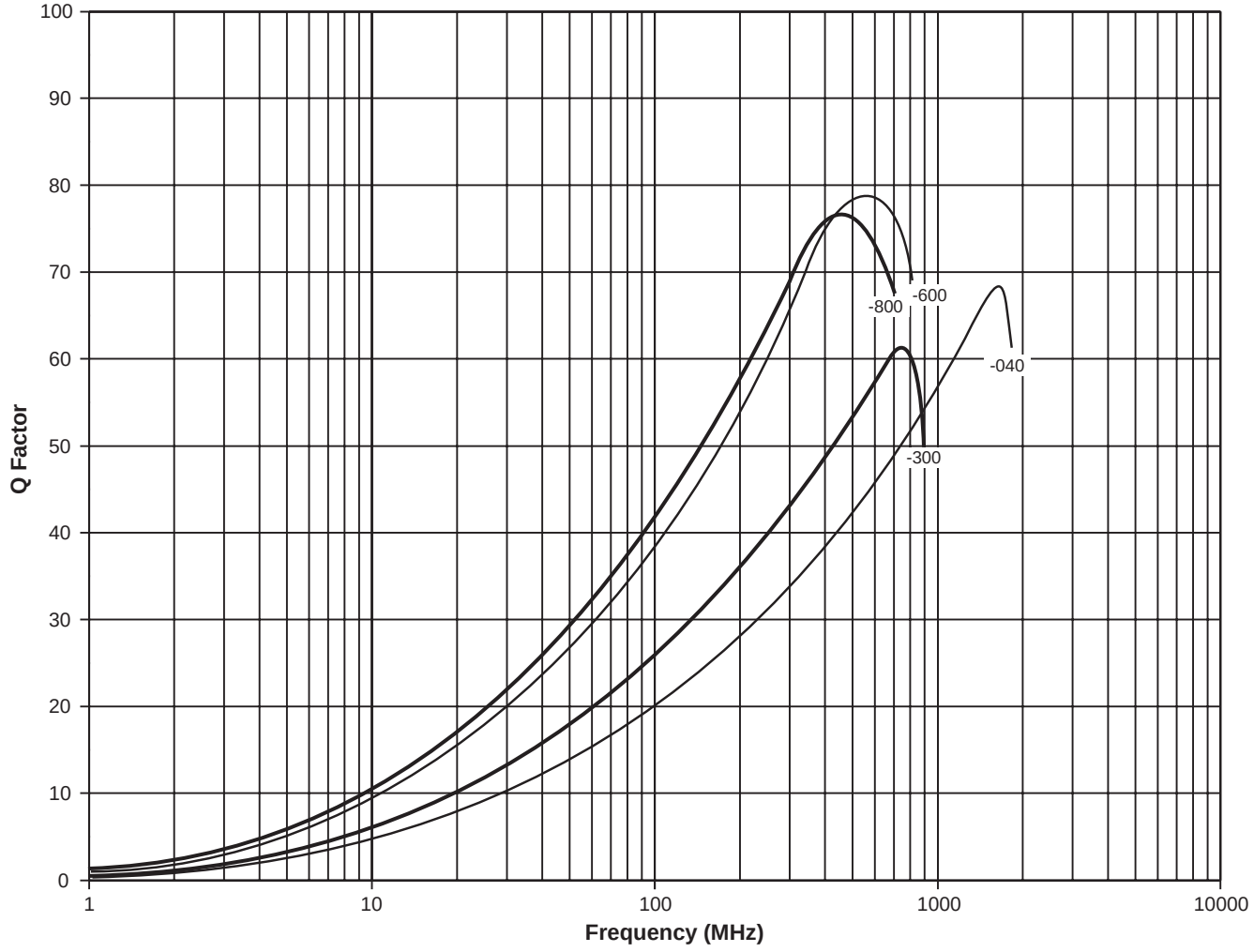
1102 Silver Lake Road Cary, Illinois 60013 **Phone** 847/639-6400 **Fax** 847/639-1469
E-mail info@coilcraft.com **Data by Fax** 800/651-6974 **Web** http://www.coilcraft.com

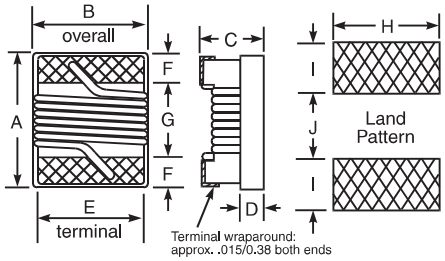
1008CT Series (2520)

S-Parameter files
ON OUR WEB SITE OR CD

PSPICE models
SEE DOC 158

TYPICAL Q vs FREQUENCY

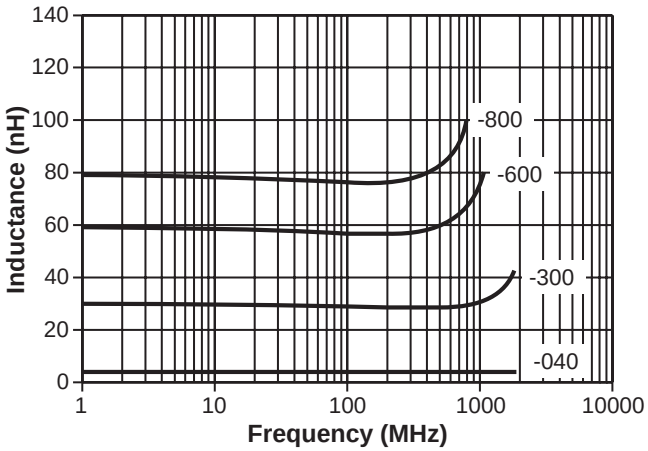




A Max.	B Max.	C Max.	D Ref.	E	F	G	H	I	J
.115	.110	.050	.020	.080	.020	.060	.100	.040	.050
2,92	2,79	1,27	0,51	2,03	0,51	1,52	2,54	1,02	1,27

Parts/reel: 7″ 2,000; 13″ 7,500 Tape width: 8mm
For packaging data see “Tape and Reel Specifications” (Document 173)

L vs FREQUENCY



1102 Silver Lake Road Cary, Illinois 60013 **Phone** 847/639-6400 **Fax** 847/639-1469
E-mail info@coilcraft.com **Data by Fax** 800/651-6974 **Web** http://www.coilcraft.com