Chip Inductors – 1008HT Series (2520)

These low profile inductors are 40% thinner than our conventional 1008 body sizes. They feature standard inductance tolerances of 5-10%, high SRFs and very high Q.

Coilcraft **Designer's Kit C122** contains samples of all 5% inductance tolerance parts. To order, contact Coilcraft.

Part Number[1]	Inductance[2] (nH)	Percent Tolerance[3]	Q Min[4]	SRF Min[5] (MHz)	R_{DC} Max[6] (Ohms)	I_{DC} Max[7] (mA)
1008HT-3N3T_BC	3.3 @ 250 MHz	**10,5**	65 @ 1500 MHz	7900	.025	1000
1008HT-6N8T_BC	6.8 @ 250 MHz	**10,5**	70 @ 1500 MHz	5500	.05	1000
1008HT-7N2T_BC	7.2 @ 250 MHz	**10,5**	70 @ 1500 MHz	4800	.05	1000
1008HT-12NT_BC	12 @ 250 MHz	**10,5**	55 @ 700 MHz	3800	.065	1000
1008HT-15NT_BC	15 @ 250 MHz	**10,5**	55 @ 700 MHz	2800	.08	1000
1008HT-18NT_BC	18 @ 250 MHz	**10,5**	55 @ 500 MHz	3000	.09	1000
1008HT-22NT_BC	22 @ 250 MHz	**5**	55 @ 500 MHz	2600	.11	950
1008HT-27NT_BC	27 @ 250 MHz	**5**,2	55 @ 500 MHz	2400	.13	850
1008HT-33NT_BC	33 @ 200 MHz	**5**,2	55 @ 350 MHz	2000	.135	760
1008HT-39NT_BC	39 @ 200 MHz	**5**,2	55 @ 350 MHz	1900	.17	700
1008HT-47NT_BC	47 @ 200 MHz	**5**,2	55 @ 350 MHz	1500	.18	660
1008HT-56NT_BC	56 @ 150 MHz	**5**,2	50 @ 300 MHz	1500	.18	620
1008HT-68NT_BC	68 @ 150 MHz	**5**,2	50 @ 300 MHz	1500	.23	550
1008HT-82NT_BC	82 @ 150 MHz	**5**,2	40 @ 250 MHz	1300	.35	500
1008HT-R10T_BC	100 @ 100 MHz	**5**,2	40 @ 250 MHz	1200	.64	420
1008HT-R12T_BC	120 @ 100 MHz	**5**,2	40 @ 200 MHz	1090	.55	350
1008HT-R14T_BC	140 @ 100 MHz	**5**,2	40 @ 200 MHz	1100	.70	320
1008HT-R15T_BC	150 @ 100 MHz	**5**,2	40 @ 200 MHz	960	.75	300
1008HT-R18T_BC	180 @ 50 MHz	**5**,2	40 @ 200 MHz	920	1.02	250
1008HT-R22T_BC	220 @ 50 MHz	**5**,2	34 @ 100 MHz	750	1.15	250
1008HT-R24T_BC	240 @ 50 MHz	**5**,2	32 @ 100 MHz	800	1.15	250
1008HT-R27T_BC	270 @ 50 MHz	**5**,2	32 @ 100 MHz	770	1.25	250
1008HT-R33T_BC	330 @ 25 MHz	**5**,2	32 @ 100 MHz	635	1.35	250
1008HT-R39T_BC	390 @ 25 MHz	**5**,2	32 @ 100 MHz	555	1.45	250
1008HT-R47T_BC	470 @ 25 MHz	**5**,2	32 @ 100 MHz	530	1.65	240
1008HT-R56T_BC	560 @ 25 MHz	**5**,2	32 @ 100 MHz	485	1.90	240

• 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:

1008HT-R56T_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%
Table above shows stock tolerances in bold.
Other tolerances shown are available on special order.

2. Inductance measured using the HP4291A impedance analyzer with the HP16193A test fixture 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° C to +125° C.

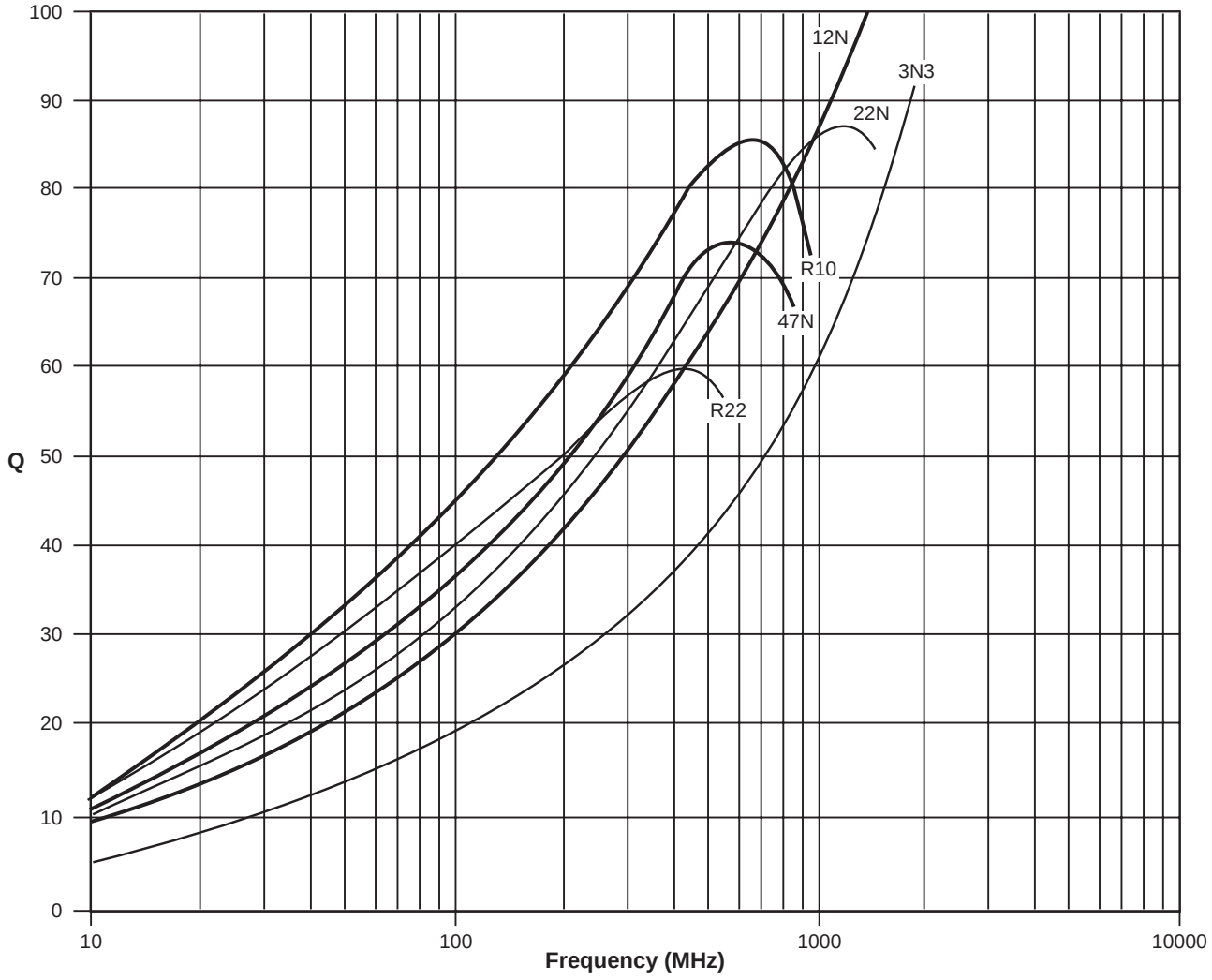
1102 Silver Lake Road Cary, Illinois 60013 **Phone** 847/639-6400 **Fax** 847/639-1469
E-mail info@coilcraft.com **Data by Fax** 800/651-6974 **Web** http://www.coilcraft.com

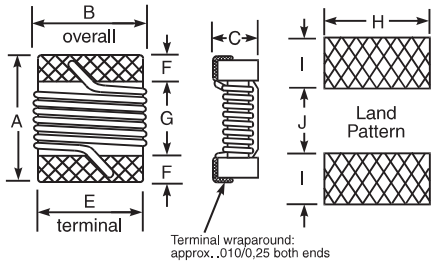
1008HT Series (2520)

S-Parameter files
ON OUR WEB SITE OR CD

PSPICE models
SEE DOC 158

TYPICAL Q vs FREQUENCY

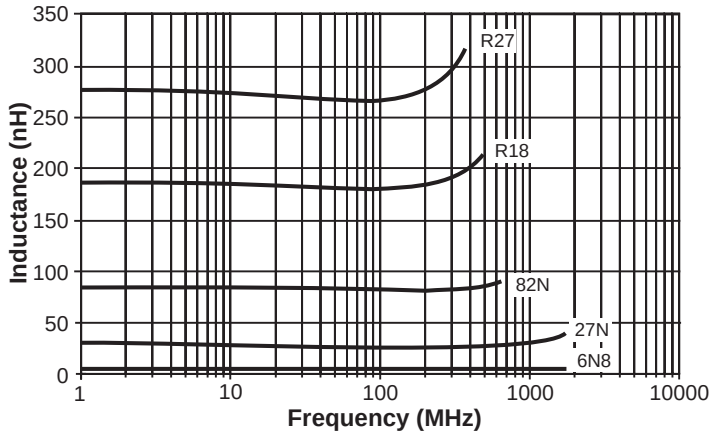




A Max.	B Max.	C Max.	E	F	G	H	I	J
.105	.095	.045	.080	.020	.060	.100	.040	.050
2,67	2,41	1,14	2,03	0,51	1,52	2,54	1,02	1,27

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

L vs FREQUENCY



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