

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 the standard parts shown. To order contact Coilcraft.

Part Number	Inductance ¹ (nH)	Percent Tolerance ²	Q Min ³	SRF Min ⁴ (MHz)	R _{DC} Max ⁵ (Ohms)	I _{DC} Max ⁶ (mA)
1008HT-3N3TKBC	3.3 @ 250 MHz	10	65 @ 1500 MHz	>6000	.025	1000
1008HT-6N8TKBC	6.8 @ 250 MHz	10	70 @ 1500 MHz	5500	.05	1000
1008HT-7N2TKBC	7.2 @ 250 MHz	10	70 @ 1500 MHz	4800	.05	1000
1008HT-12NTKBC	12 @ 250 MHz	10	55 @ 700 MHz	3800	.065	1000
1008HT-15NTKBC	15 @ 250 MHz	10,5	55 @ 700 MHz	2800	.08	1000
1008HT-18NTKBC	18 @ 250 MHz	10,5	55 @ 500 MHz	3000	.09	1000
1008HT-22NTJBC	22 @ 250 MHz	5	55 @ 500 MHz	2600	.11	950
1008HT-27NTJBC	27 @ 250 MHz	5,2	55 @ 500 MHz	2400	.13	850
1008HT-33NTJBC	33 @ 200 MHz	5,2	55 @ 350 MHz	2000	.135	760
1008HT-39NTJBC	39 @ 200 MHz	5,2	55 @ 350 MHz	1900	.17	700
1008HT-47NTJBC	47 @ 200 MHz	5,2	55 @ 350 MHz	1500	.18	660
1008HT-56NTJBC	56 @ 150 MHz	5,2	50 @ 300 MHz	1500	.18	620
1008HT-68NTJBC	68 @ 150 MHz	5,2	50 @ 300 MHz	1500	.23	550
1008HT-82NTJBC	82 @ 150 MHz	5,2	40 @ 250 MHz	1300	.35	500
1008HT-R10TJBC	100 @ 100 MHz	5,2	40 @ 250 MHz	1200	.64	420
1008HT-R12TJBC	120 @ 100 MHz	5,2	40 @ 200 MHz	1090	.55	350
1008HT-R14TJBC	140 @ 100 MHz	5,2	40 @ 200 MHz	1100	.70	320
1008HT-R15TJBC	150 @ 100 MHz	5,2	40 @ 200 MHz	960	.75	300
1008HT-R18TJBC	180 @ 50 MHz	5,2	40 @ 200 MHz	920	1.02	250
1008HT-R22TJBC	220 @ 50 MHz	5,2	34 @ 100 MHz	750	1.15	250
1008HT-R24TJBC	240 @ 50 MHz	5,2	32 @ 100 MHz	800	1.15	250
1008HT-R27TJBC	270 @ 50 MHz	5,2	32 @ 100 MHz	770	1.25	250
1008HT-R33TJBC	330 @ 25 MHz	5,2	32 @ 100 MHz	635	1.35	250
1008HT-R39TJBC	390 @ 25 MHz	5,2	32 @ 100 MHz	555	1.45	250
1008HT-R47TJBC	470 @ 25 MHz	5,2	32 @ 100 MHz	530	1.65	240
1008HT-R56TJBC	560 @ 25 MHz	5,2	32 @ 100 MHz	485	1.90	240

For help ordering non-standard parts, see "Part Numbering" (Document 120).
For environmental data see "Product Specifications" (Document 121).

For part marking data see "Color Coding" (Document 174).

- Inductance measured using the HP4291A impedance analyzer with the HP16193A test fixture with Coilcraft-provided correlation pieces. For recommended test procedures, contact Coilcraft.
- Bold number indicates standard tolerance. When ordering other tolerances, replace the third to the last letter in the part number with the proper tolerance code: F=1%, G=2%, J=5%, K=10%, M=20%. (e.g. 1008HT-3N3TKBC for a 5% tolerance part)

3. Q measured using HP4291A with HP16193 test fixture and on HP8753B with Coilcraft SMD-E test fixture.

4. SRF measured using HP8753B network analyzer and Coilcraft SMD-D test fixture.

5. R_{DC} measured on Cambridge Technology micro-ohmmeter and Coilcraft CCF 840 test fixture.

6. For 15°C rise.

7. Operating temperature range -40° C to +125° C.

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MEASUREMENTS
PAGE 126 **TEST FIXTURES**

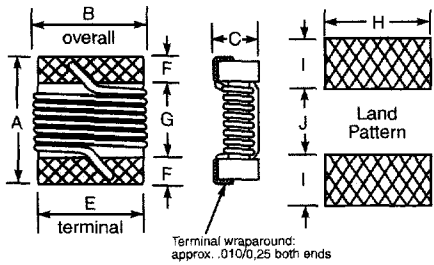
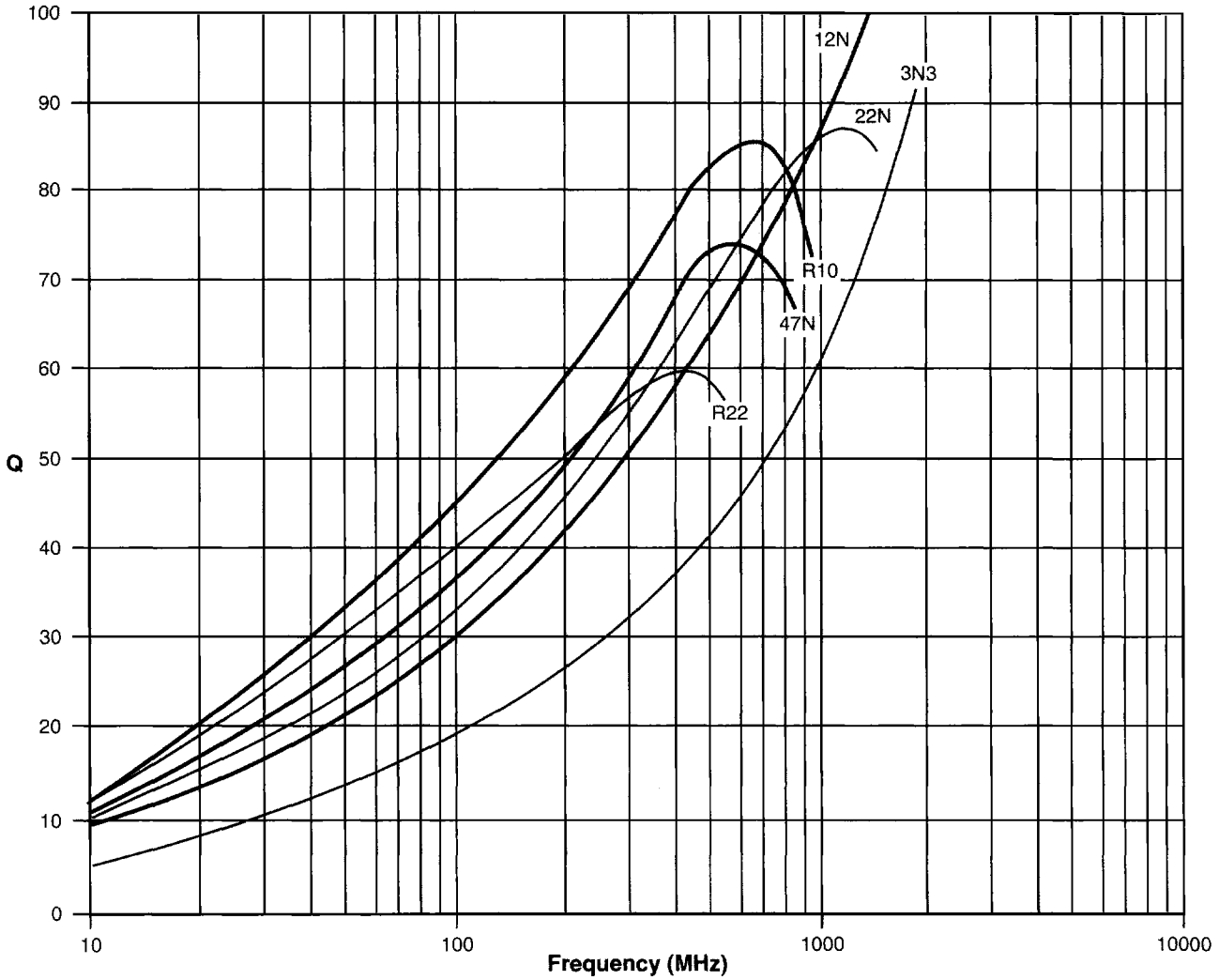
Coilcraft

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1008HT Series (2520)

TYPICAL Q vs FREQUENCY



A	B	C	E	F	G	H	I	J
Max.	Max.	Max.						
.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

