

Chip Inductors – 0805HT Series (2012)

At just .035" high, these are one of our lowest profile surface mount inductors. Their wire wound ceramic design provides tight tolerances, exceptional Q and high SRF values.

Coilcraft **Designer's Kit C121** contains samples of all 5% inductance tolerance parts. To order, contact Coilcraft or visit <http://order.coilcraft.com> to order on-line.

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)	Color Code
0805HT-1N8T_BC	1.8 @ 250 MHz	10	55 @ 1500 MHz	9400	.03	800	Black
0805HT-3N9T_BC	3.9 @ 250 MHz	10	50 @ 1000 MHz	6100	.055	800	Brown
0805HT-4N7T_BC	4.7 @ 250 MHz	10,5	50 @ 1000 MHz	5500	.06	800	Red
0805HT-6N8T_BC	6.8 @ 250 MHz	10,5	50 @ 1000 MHz	5500	.08	800	Orange
0805HT-8N2T_BC	8.2 @ 250 MHz	10,5	50 @ 1000 MHz	4800	.08	800	Yellow
0805HT-10NT_BC	10 @ 250 MHz	5	55 @ 750 MHz	3300	.08	800	Green
0805HT-12NT_BC	12 @ 250 MHz	5	55 @ 750 MHz	3800	.10	800	Blue
0805HT-15NT_BC	15 @ 250 MHz	5	50 @ 500 MHz	2950	.10	800	Violet
0805HT-18NT_BC	18 @ 250 MHz	5	50 @ 500 MHz	3100	.13	800	Gray
0805HT-22NT_BC	22 @ 250 MHz	5,2	50 @ 500 MHz	2900	.15	800	White
0805HT-27NT_BC	27 @ 250 MHz	5,2	50 @ 500 MHz	2450	.19	700	Black
0805HT-33NT_BC	33 @ 250 MHz	5,2	55 @ 500 MHz	2350	.19	600	Brown
0805HT-39NT_BC	39 @ 250 MHz	5,2	55 @ 500 MHz	2200	.27	600	Red
0805HT-47NT_BC	47 @ 200 MHz	5,2	50 @ 500 MHz	2000	.30	600	Orange
0805HT-56NT_BC	56 @ 200 MHz	5,2	50 @ 500 MHz	1850	.39	500	Yellow
0805HT-68NT_BC	68 @ 200 MHz	5,2	50 @ 500 MHz	1500	.40	500	Green
0805HT-82NT_BC	82 @ 150 MHz	5,2	50 @ 500 MHz	1500	.44	500	Blue
0805HT-R10T_BC	100 @ 150 MHz	5,2	50 @ 500 MHz	1200	.64	400	Violet
0805HT-R12T_BC	120 @ 150 MHz	5,2	40 @ 250 MHz	1150	.68	300	Gray
0805HT-R15T_BC	150 @ 150 MHz	5,2	40 @ 250 MHz	1050	.80	300	White

• For environmental data see "Product Specifications" section (Document 121).

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

0805HT-R15T_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 CCF858 test fixture.

7. For 15°C rise.

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

9. Electrical specifications at 25°C.

COILCRAFT ACCURATE
PRECISION REPEATABLE
MEASUREMENTS
DOC. 126 TEST FIXTURES

Coilcraft

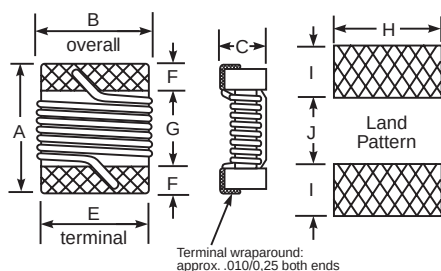
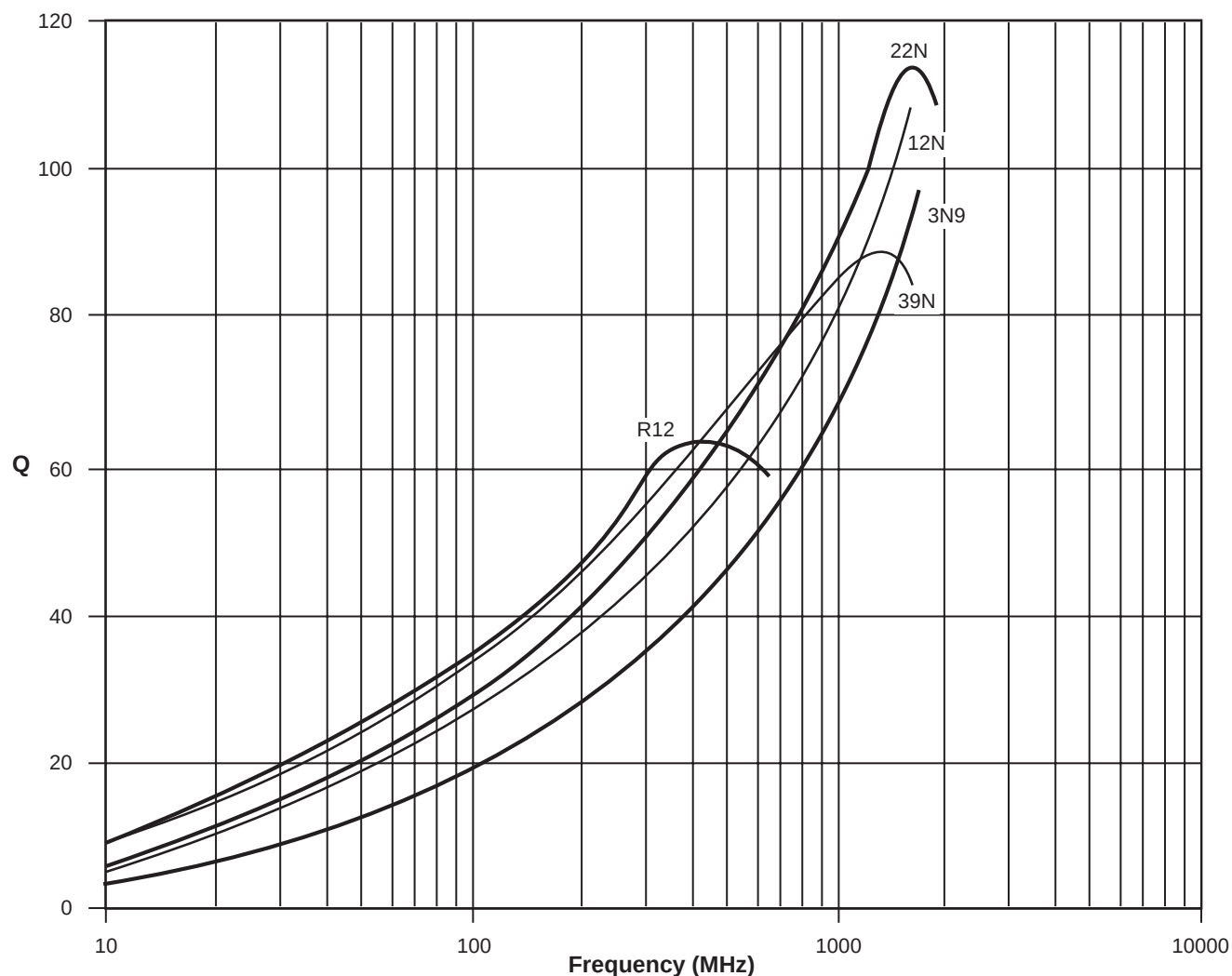
Specifications subject to change without notice. Document 168-1 Revised 4/5/99

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0805HT Series (2012)

TYPICAL Q vs FREQUENCY

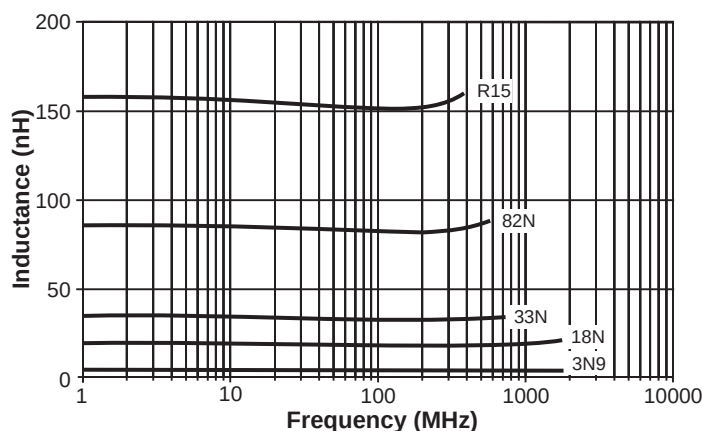
S-Parameter files
ON OUR WEB SITE OR CD
PSPICE models
SEE DOC 158



A	B	C	E	F	G	H	I	J
Max.	Max.	Max.						
.085	.060	.035	.050	.017	.045	.070	.040	.030
2,16	1,52	0,89	1,27	0,43	1,14	1,78	1,02	0,76

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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