

Chip Inductors—0805HS Series (2012)

Ceramic body and wirewound construction provide highest SRFs available in 0805 size.

These ultra-compact inductors provide exceptional Q values, even at high frequencies.

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
0805HS-030T_BC	3.3 @ 250 MHz	20,10,5	50 @ 1500 MHz	7900	.08	600	Black
0805HS-060T_BC	6.8 @ 250 MHz	20,10,5	50 @ 1000 MHz	5500	.11	600	Brown
0805HS-080T_BC	8.2 @ 250 MHz	20,10,5	50 @ 1000 MHz	4700	.12	600	Red
0805HS-120T_BC	12 @ 250 MHz	20,10,5	50 @ 500 MHz	4000	.15	600	Orange
0805HS-150T_BC	15 @ 250 MHz	20,10,5	50 @ 500 MHz	3400	.17	600	Yellow
0805HS-180T_BC	18 @ 250 MHz	20,10,5	50 @ 500 MHz	3300	.20	600	Green
0805HS-220T_BC	22 @ 250 MHz	20,10,5,2	55 @ 500 MHz	2600	.22	500	Blue
0805HS-270T_BC	27 @ 250 MHz	20,10,5,2	55 @ 500 MHz	2500	.25	500	Violet
0805HS-330T_BC	33 @ 250 MHz	20,10,5,2	60 @ 500 MHz	2050	.27	500	Gray
0805HS-390T_BC	39 @ 250 MHz	20,10,5,2	60 @ 500 MHz	2000	.29	500	White
0805HS-470T_BC	47 @ 200 MHz	20,10,5,2	60 @ 500 MHz	1650	.31	500	Black
0805HS-560T_BC	56 @ 200 MHz	10,5,2,1	60 @ 500 MHz	1550	.34	500	Brown
0805HS-680T_BC	68 @ 200 MHz	10,5,2,1	60 @ 500 MHz	1450	.38	500	Red
0805HS-820T_BC	82 @ 150 MHz	10,5,2,1	65 @ 500 MHz	1300	.42	400	Orange
0805HS-101T_BC	100 @ 150 MHz	10,5,2,1	65 @ 500 MHz	1200	.46	400	Yellow
0805HS-121T_BC	120 @ 150 MHz	10,5,2,1	50 @ 250 MHz	1100	.51	400	Green
0805HS-151T_BC	150 @ 100 MHz	10,5,2,1	50 @ 250 MHz	920	.56	400	Blue
0805HS-181T_BC	180 @ 100 MHz	10,5,2,1	50 @ 250 MHz	870	.64	400	Violet
0805HS-221T_BC	220 @ 100 MHz	10,5,2	50 @ 250 MHz	850	.70	400	Gray

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

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

0805HS-221T_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

F=1%, **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 CCF858 test fixture.

7. For 15°C rise.

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

9. Electrical specifications at 25°C.

COILCRAFT ACCURATE
PRECISION REPEATABLE
MEASUREMENTS
DOC. 126 **TEST FIXTURES**

Coilcraft

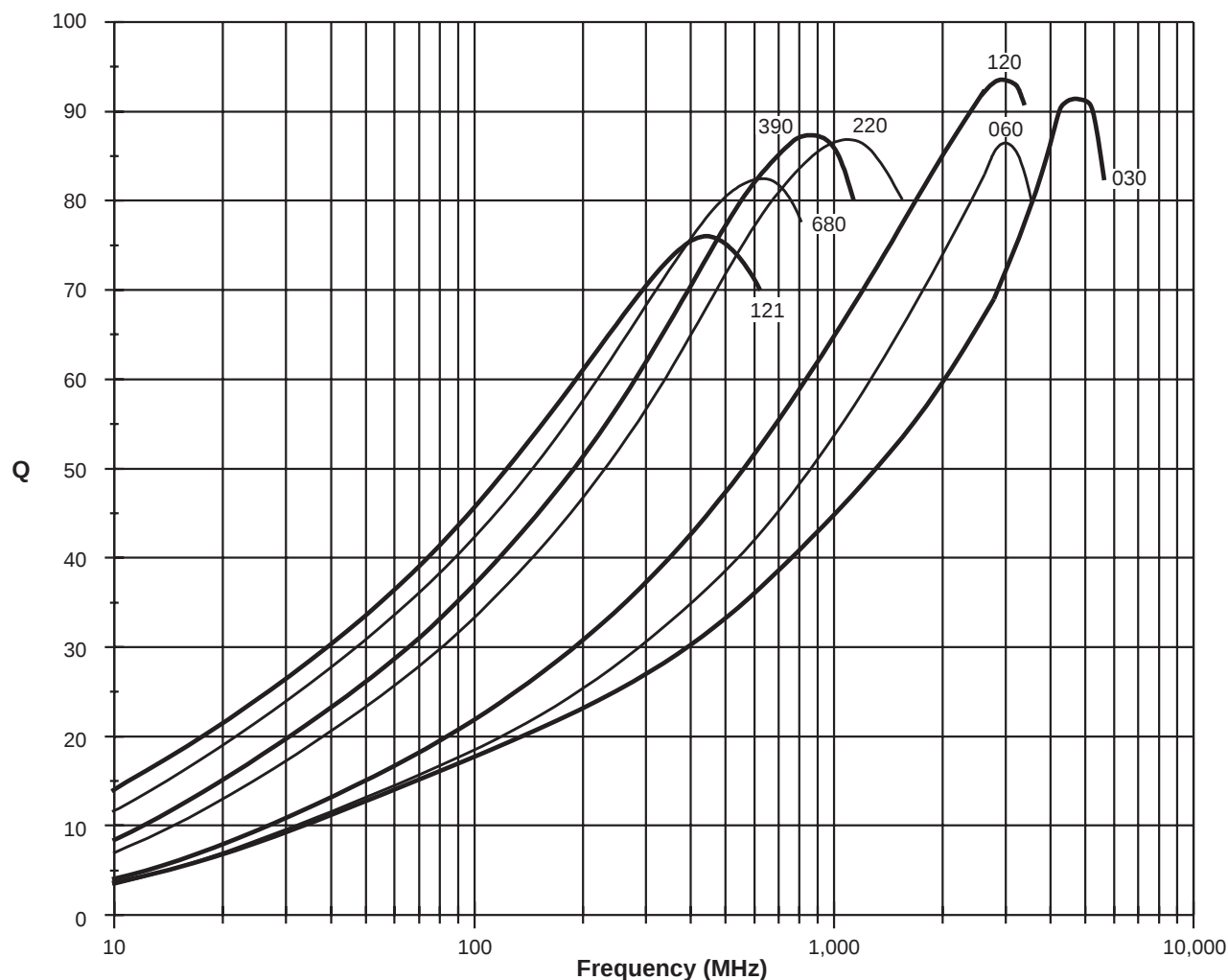
Specifications subject to change without notice. Document 159-1 Revised 4/5/99

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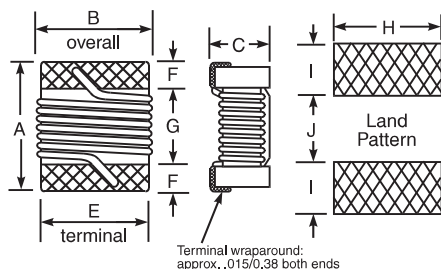
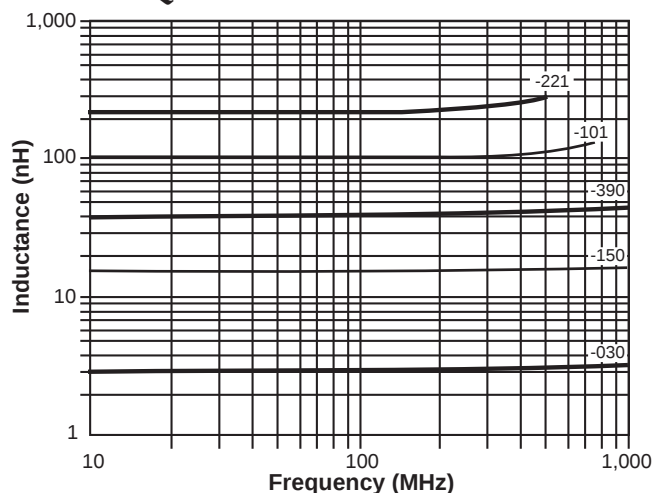
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TYPICAL Q vs FREQUENCY

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



L vs FREQUENCY



A	B	C	E	F	G	H	I	J
Max.	Max.	Max.						
.085	.060	.057	.050	.020	.040	.070	.040	.030
2,16	1,52	1,45	1,27	0,51	1,02	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)

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Specifications subject to change without notice. Document 159-2 Revised 5/19/99

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