

Chip Inductors—0603HS Series (1608)

This series will be discontinued after May 31, 1998. Please use our 0603CS Series which is electrically equivalent and has the same footprint.

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)	900 MHz		1.7 GHz		Color Code
							L Typ	Q Typ	L Typ	Q Typ	
0603HS-1N8T_BC	1.8 @ 250 MHz	10	16	>6000	.045	700	1.63	35	1.66	50	Black
0603HS-3N9T_BC	3.9 @ 250 MHz	10	22	>6000	.080	700	3.95	49	3.96	67	Brown
0603HS-6N8T_BC	6.8 @ 250 MHz	10	27	5800	.110	700	6.75	60	7.1	81	Red
0603HS-10NT_BC	10 @ 250 MHz	5	31	4800	.130	700	10	66	10.6	83	Orange
0603HS-12NT_BC	12 @ 250 MHz	5	35	4000	.130	700	12.3	72	13.5	83	Yellow
0603HS-15NT_BC	15 @ 250 MHz	5	35	4000	.170	700	15.4	64	16.8	89	Green
0603HS-18NT_BC	18 @ 250 MHz	5	35	3100	.170	700	18.7	70	21.4	69	Blue
0603HS-22NT_BC	22 @ 250 MHz	5	38	3000	.190	700	22.8	73	26.1	71	Violet
0603HS-27NT_BC	27 @ 250 MHz	5,2	40	2800	.220	600	29.2	74	34.6	65	Gray
0603HS-33NT_BC	33 @ 250 MHz	5,2	40	2300	.220	600	36	67	49.5	42	White
0603HS-39NT_BC	39 @ 250 MHz	5,2	40	2200	.250	600	42.7	60	60.2	40	Black
0603HS-47NT_BC	47 @ 200 MHz	5,2	38	2000	.280	600	52.2	62	77.2	35	Brown
0603HS-56NT_BC	56 @ 200 MHz	5,2	38	1900	.310	600	62.5	56	97	26	Red
0603HS-68NT_BC	68 @ 200 MHz	5,2	37	1700	.340	600	80.5	54	168	21	Orange
0603HS-72NT_BC	72 @ 150 MHz	5,2	34	1700	.490	400	82.0	53	135	20	Yellow
0603HS-82NT_BC	82 @ 150 MHz	5,2	34	1700	.540	400	96.2	54	177	21	Green
0603HS-R10T_BC	100 @ 150 MHz	5,2	34	1400	.580	400	124	49	—	—	Blue
0603HS-R11T_BC	110 @ 150 MHz	5,2	32	1350	.610	300	138	43	—	—	Violet
0603HS-R12T_BC	120 @ 150 MHz	5,2	32	1300	.650	300	166	39	—	—	Gray

- 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:

0603HS-R12T_BC

L 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.

- Inductance measured using Coilcraft SMD-A fixture in HP4286 impedance analyzer with Coilcraft-provided correlation pieces. For recommended test procedures, contact Coilcraft.
- Tolerances in bold are stocked for immediate shipment.
- Q measured using HP4291A with HP16193 test fixture and on HP8753D with Coilcraft SMD-E test fixture.
- SRF measured using HP8753D network analyzer and Coilcraft SMD-D test fixture.
- R_{DC} measured on Cambridge Technology micro-ohmmeter and Coilcraft CCF858 test fixture.
- For 15°C rise.
- Operating temperature range -40°C to +125°C.

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

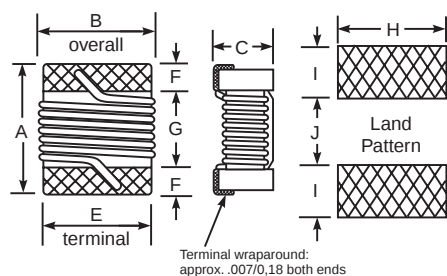
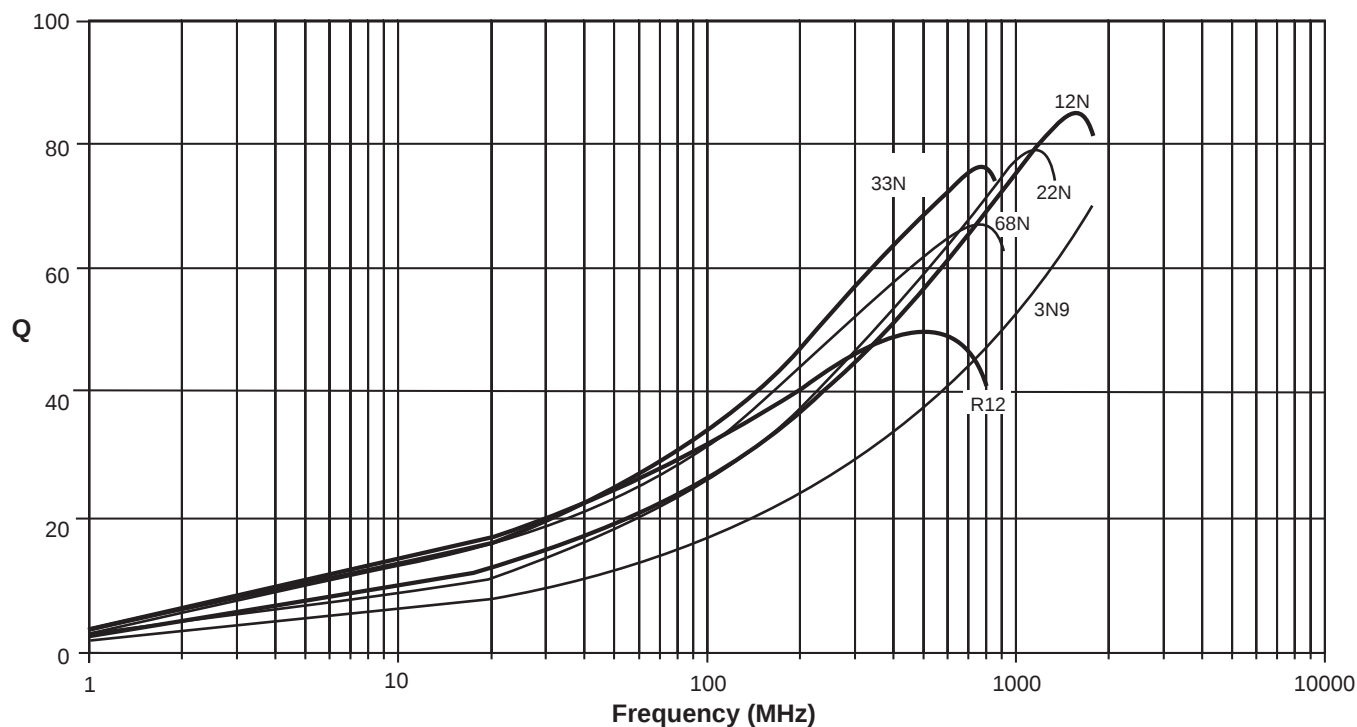
Coilcraft

Specifications subject to change without notice. Document 175-1 Revised 11/17/97

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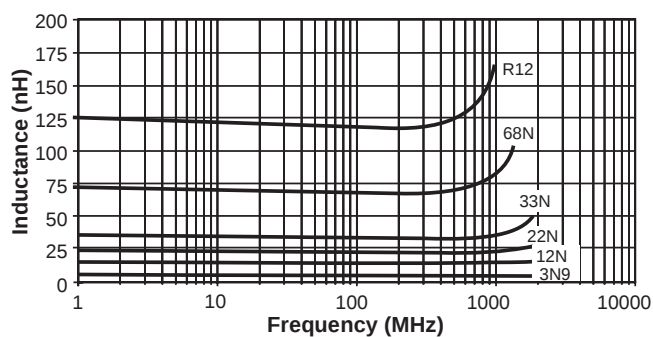
TYPICAL Q vs FREQUENCY



A	B	C	E	F	G	H	I	J
Max.	Max.	Max.						
.067	.045	.040	.030	.013	.034	.040	.025	.025
1.70	1.14	1.02	0.76	0.33	0.86	1.02	0.64	0.64

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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Document 175-2 Revised 6/25/97