

Chip Inductors—0603HS Series (1608)

The world's smallest wirewound inductor! These coils offer far greater Q factors and higher self-

resonant frequencies than non-wirewound inductors.

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	900 MHz		1.7 GHz	
							L Typ	Q Typ	L Typ	Q Typ
0603HS-1N8TKBC	1.8 @ 250 MHz	10	16	>6000	.045	700	1.63	40	1.66	60
0603HS-3N9TKBC	3.9 @ 250 MHz	10	22	>6000	.080	700	3.95	53	3.96	79
0603HS-6N8TKBC	6.8 @ 250 MHz	10	27	5800	.110	700	6.75	72	7.1	100
0603HS-10NTJBC	10 @ 250 MHz	5	31	4800	.130	700	10	85	10.6	107
0603HS-12NTJBC	12 @ 250 MHz	5	35	4000	.130	700	12.3	87	13.5	103
0603HS-15NTJBC	15 @ 250 MHz	5	35	4000	.170	700	15.4	100	16.8	115
0603HS-18NTJBC	18 @ 250 MHz	5	35	3100	.170	700	18.7	98	21.4	101
0603HS-22NTJBC	22 @ 250 MHz	5	38	3000	.190	700	22.8	104	26.1	108
0603HS-27NTJBC	27 @ 250 MHz	5	40	2800	.220	600	29.2	105	34.6	102
0603HS-33NTJBC	33 @ 250 MHz	5	40	2300	.220	600	36	87	49.5	57
0603HS-39NTJBC	39 @ 250 MHz	5	40	2200	.250	600	42.7	87	60.2	50
0603HS-47NTJBC	47 @ 200 MHz	5	38	2000	.280	600	52.2	88	77.2	45
0603HS-56NTJBC	56 @ 200 MHz	5	38	1900	.310	600	62.5	81	97	44
0603HS-68NTJBC	68 @ 200 MHz	5	37	1700	.340	600	80.5	70	168	30
0603HS-72NTJBC	72 @ 150 MHz	5	34	1700	.490	400	82.0	74	135	35
0603HS-82NTJBC	82 @ 150 MHz	5	34	1700	.540	400	96.2	74	177	30
0603HS-R10TJBC	100 @ 150 MHz	5	34	1400	.580	400	124	70	—	—
0603HS-R11TJBC	110 @ 150 MHz	5	32	1350	.610	300	138	67	—	—
0603HS-R12TJBC	120 @ 150 MHz	5	32	1300	.650	300	166	60	—	—

1. Inductance measured using Coilcraft SMD-A fixture in HP4191A impedance analyzer with Coilcraft-provided correlation pieces. For recommended test procedures, contact Coilcraft.
2. 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. 0603HS-1N8XJBC for a 5% tolerance part.

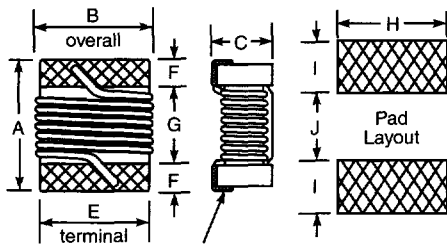
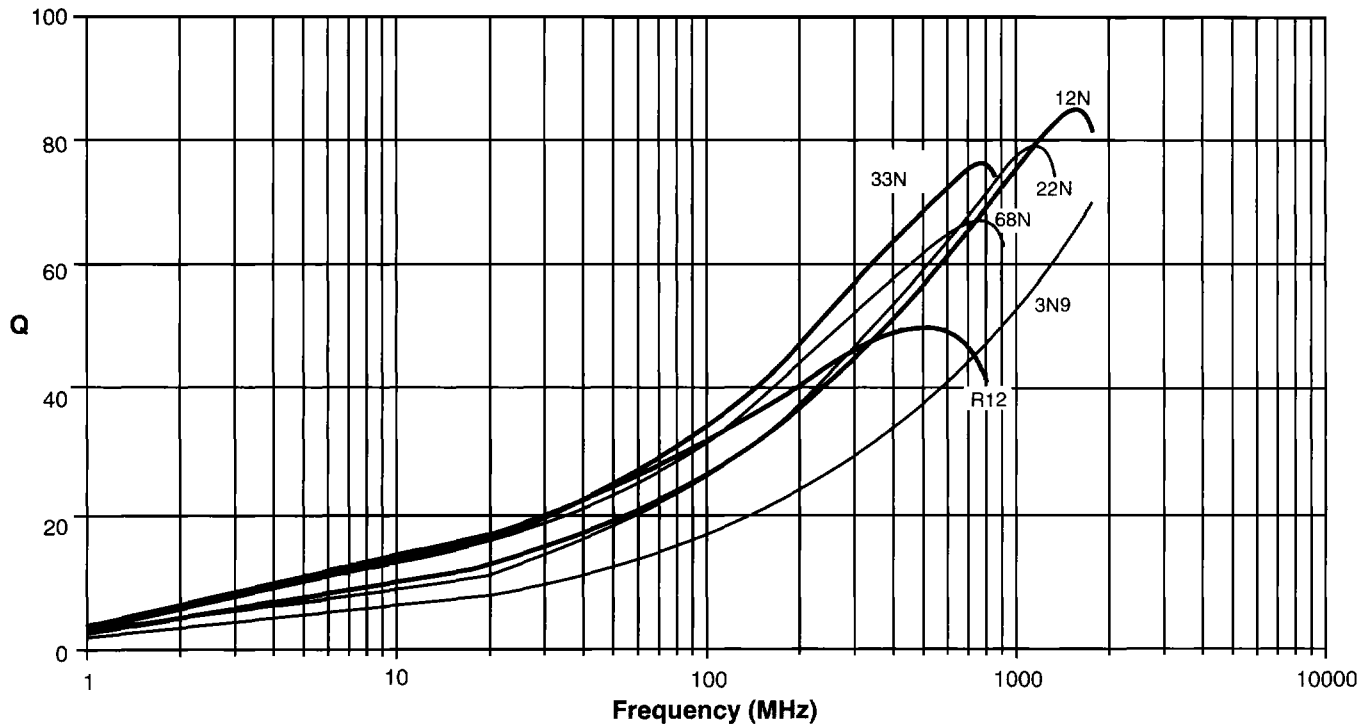
3. Q measured using HP4291A with HP16193 test fixture and on HP8753B with Coilcraft SMD-E test fixture.
4. SRF measured using HP8753B network analyzer and Coilcraft SMD-D test fixture.
5. R_{DC} measured on Cambridge Technology micro-ohmmeter and Coilcraft CCF858 test fixture.
6. For 15°C rise.

Document 175-1 Revised 4/30/96

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

0603HS Series (1608)

TYPICAL Q vs FREQUENCY

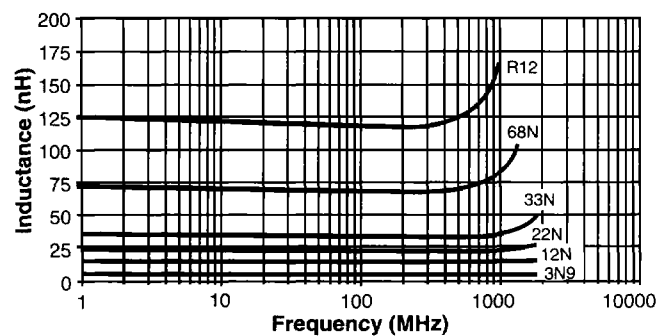


Terminal wraparound:
approx. .007/0, 18 both ends

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

L vs FREQUENCY



Coilcraft

Document 175-2 Revised 4/30/96

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