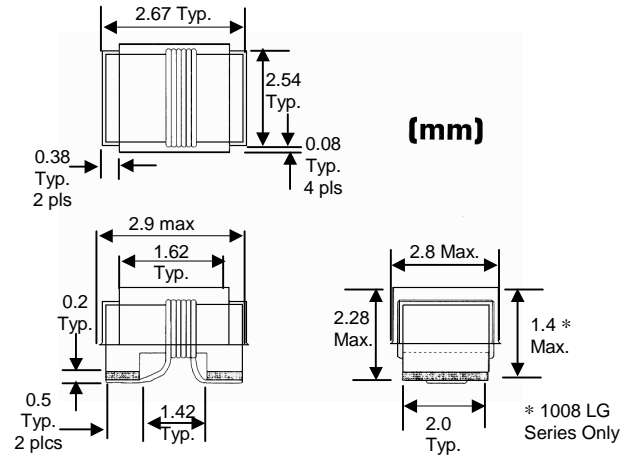
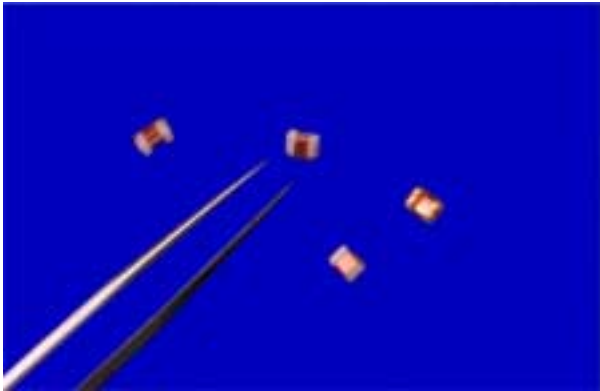


1008 Surface Mount



Specifications & Standard Values

Part Number	L @ Freq. (nH Mhz)	Available Tolerances	Q @ Freq. (Min. Mhz)	SRF (MHz)	DCR (ohm)	I max. (mA)	Material
1008G4R7**E	4.7@100	J,K	60@1500	>6000	.12	1000	Alumina
1008G8R2**E	8.2@100	J,K	70@1500	>6000	.08	1000	
1008G100**E	10@100	J,K	70@500	2400	.05	1850	
1008G120**E	12@100	J,K	70@500	3000	.09	1000	
1008G150**E	15@100	J,K	50@500	3000	.20	1000	
1008G180**E	18@100	G,J	75@350	2600	.11	1000	
1008G220**E	22@100	G,J	75@350	2400	.06	1450	
1008G270**E	27@100	G,J	60@350	1600	.13	1000	
1008G330**E	33@100	G,J	60@350	1700	.06	1450	
1008G390**E	39@100	G,J	70@350	1500	.075	1300	
1008G470**E	47@100	G,J	65@350	1400	.075	1300	
1008G560**E	56@100	G,J	65@350	1200	.09	1260	
1008G680**E	68@100	G,J	65@350	1100	.09	1260	
1008G820**E	82@100	G,J	60@350	1000	.15	1000	
1008G101**E	100@100	G,J	65@350	1000	.15	820	
1008G121**E	120@100	G,J	60@350	1000	.15	820	
1008G151**E	150@100	G,J	45@100	825	.18	820	
1008G181**E	180@50	G,J	50@100	770	.20	770	
1008G221**E	220@50	G,J	50@100	690	.26	660	
1008G271**E	270@50	G,J	50@100	650	.30	610	
1008G331**E	330@50	G,J	50@100	570	.45	500	
1008G391**E	390@50	G,J	45@100	520	.70	470	
1008G431**E	430@50	G,J	45@100	500	.75	470	
1008G471**E	470@50	G,J	45@100	490	.78	470	
1008G561**E	560@35	G,J	45@100	440	1.20	400	
1008G621**E	620@35	G,J	45@100	400	2.10	300	
1008G681**E	680@35	G,J	45@100	390	2.10	280	
1008G751**E	750@35	G,J	45@100	330	2.30	280	
1008G821**E	820@35	G,J	45@100	360	2.30	270	
1008G911**E	910@35	G,J	40@50	310	2.70	270	
1008G102**E	1000@35	G,J	40@50	330	2.70	270	
1008G122**E	1200@35	G,J	40@50	310	3.00	250	
1008G152**E	1500@35	G,J	40@50	250	5.20	180	
1008G182**E	1800@35	G,J	35@50	225	7.20	130	
1008G222**E	2200@7.9	G,J	20@7.9	75	4.50	130	



1008G, F, LG Series Choke Coils

1008G Surface Mount

Part Number	L @ Freq. (nH Mhz)	Available Tolerances	Q @ Freq. (Min. Mhz)	SRF (MHz)	DCR (ohm)	I max. (mA)	Material
1008G272**E	2700@7.9	G,J	20@7.9	44	4.80	130	Alumina
1008G332**E	3300@7.9	G,J	20@7.9	31	5.20	130	
1008G392**E	3900@7.9	G,J	20@7.9	36	5.40	130	
1008G472**E	4700@7.9	G,J	20@7.9	28	6.00	130	
1008G562**E	5600@7.9	K	20@7.9	21	6.50	100	
1008F152**E	1500@7.9	J,K	22@7.9	250	.95	370	Ferrite
1008F182**E	1800@7.9	J,K	22@7.9	235	1.10	350	
1008F222**E	2200@7.9	J,K	22@7.9	225	1.20	280	
1008F332**E	3300@7.9	J,K	22@7.9	165	1.50	250	
1008F392**E	3900@7.9	J,K	22@7.9	135	1.60	200	
1008F472**E	4700@7.9	J,K	22@7.9	125	2.70	180	
1008F562**E	5600@7.9	J,K	22@7.9	110	4.10	180	
1008F682**E	6800@7.9	J,K	22@7.9	105	5.40	180	
1008F822**E	8200@7.9	J,K	22@7.9	96	6.80	130	
1008F103**E	10,000@7.9	K	22@7.9	88	8.00	130	

*1008 Low Profile

Part Number	L @ Freq. (nH Mhz)	Available Tolerances	Q @ Freq. (Min. Mhz)	SRF (MHz)	DCR (ohm)	I max. (mA)	Material
1008LG040**E	4.0@100	K,M	15@100	>6000	.22	800	Alumina
1008LG4R7**E	4.7@100	K,M	15@100	>6000	.25	750	
1008LG6R8**E	6.8@100	K,M	25@100	5600	.09	1400	
1008LG8R2**E	8.2@100	K,M	18@100	4700	.14	1000	
1008LG100**E	10@100	K,M	16@100	4700	.25	750	
1008LG120**E	12@100	K,M	16@100	4100	.16	850	
1008LG150**E	15@100	K,M	16@100	2500	.22	750	
1008LG180**E	18@100	K,M	16@100	2300	.13	1000	
1008LG220**E	22@100	K,M	20@100	2300	.25	750	
1008LG270**E	27@100	K,M	28@100	2300	.35	630	
1008LG330**E	33@100	J,K	28@100	1900	.22	700	
1008LG390**E	39@100	J,K	32@100	1500	.26	720	
1008LG470**E	47@100	J,K	28@100	1700	.28	670	
1008LG560**E	56@100	J,K	25@100	1500	.23	720	
1008LG680**E	68@100	J,K	20@100	1200	.26	700	
1008LG820**E	82@100	J,K	30@100	1100	.26	700	
1008LG101**E	100@100	J,K	30@100	1000	.22	650	
1008LG121**E	120@100	J,K	30@100	1000	.33	630	
1008LG151**E	150@100	J,K	27@100	850	.60	500	
1008LG181**E	180@50	J,K	32@50	700	.44	500	
1008LG221**E	220@50	J,K	33@50	650	.60	450	
1008LG271**E	270@50	J,K	34@50	650	.73	450	
1008LG331**E	330@50	J,K	35@50	650	.90	400	
1008LG391**E	390@50	J,K	30@50	560	3.10	220	
1008LG471**E	470@50	J,K	32@50	560	1.90	260	
1008LG561**E	560@35	J,K	28@35	530	2.20	240	
1008LG681**E	680@35	J,K	28@35	500	2.30	240	
1008LG821**E	820@35	J,K	26@35	430	4.30	170	
1008LG102**E	1000@35	J,K	32@35	420	5.50	160	
1008LG122**E	1200@35	J,K	23@35	420	5.80	160	
1008LG152**E	1500@7.9	J,K	15@7.9	140	3.50	160	
1008LG272**E	2700@7.9	M	11@7.9	260	8.80	100	

Chip Coils

Core Material: Rubalit 708 (Alumina 96% AL(2) O(3))
Material Preparation: The ceramic is pressed and fired at 1600 degrees Celsius in air.
METALLIZATION PROCEDURE: The base metallization is tungsten, applied through a screen printing process. The tungsten is fired at 1500 degrees Celsius in an inert atmosphere. Next, electrolytic nickel layer is a minimum 2um thick (5um typical). This nickel is then sintered at 850 degrees Celsius. Over the nickel an electrolytic gold flash .1um is applied.
COPPER WIRE DESCRIPTION: The wire is high temperature enameled copper wire. The wire bears the trade name Estersol at U.L. and is equivalent to the ANSI-TYPE NW 77L(NEMA). Typical tin bath temperature is approximately 470 degrees Celsius.

- Core material is Rubalit 708 (alumina) 96% AL(2) O(3)
- Alumina Core Inductors Operating Temperature -55°C to +125°C
- Wrap around terminations
- Terminations are tungsten-nickel with gold flash, 0.1um. Soldercoat optional
- Molded flat top
- 8mm Tape and reel
- Special values available
- Ferrite 1008F:**
- Ferrite Core Inductors Operating Temperature -40°C to +85°C
- Wire terminations are spot welded to silver tin nickel metallization

1 0 0 8 G 1 5 2 K T E

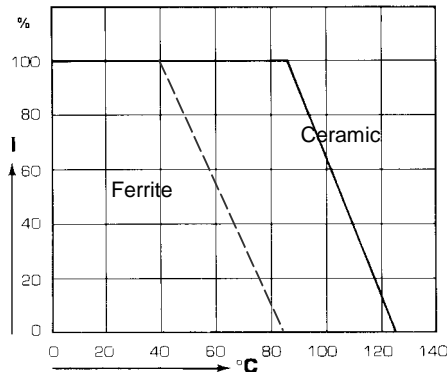
PACKAGE STYLE
 1st two digits are significant
 3rd digit denotes number of zeros to follow: 152-1500nh
 (G = Gold Flash)
 (T = Solder Coat)
 (F = Ferrite)
 EXAMPLE: 1008 size 1500nh 10% tape & reel

INDUCTANCE (Nanohenrys)

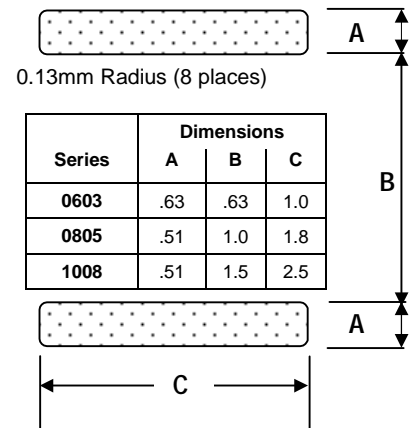
TOLERANCE
 *(G = 2%, J = 5%, K = 10%, M = 20%)

***PACKAGING**
 COATING
 Epoxy
 Encapsulation

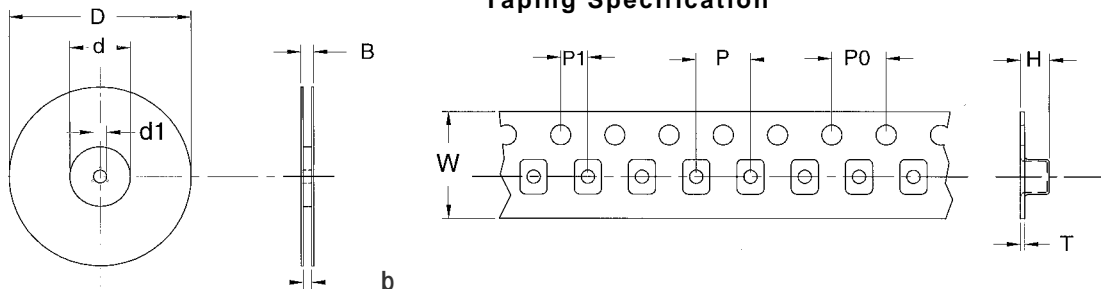
Current Carrying Capability
 Dependant on the ambient temperature. These measurements were conducted with coils soldered on AL(2)O(3) substrates, size 10 x 10 mm.



Solder Pad Layout



Taping Specification



Series	D	d	d1	B	b	W	P	P0	P1	H	T
0603	180	60	13	12.7	8.4	8	4	4	2	1.25	0.2
0805	180	60	13	12.7	8.4	8	4	4	2	1.63	0.2
1008	180	60	13	12.7	8.4	8	4	4	2	2.54	0.3

