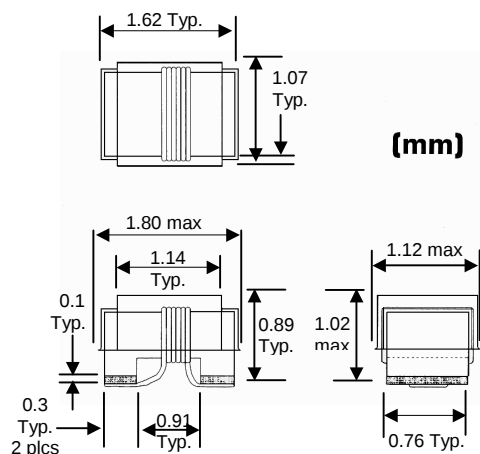
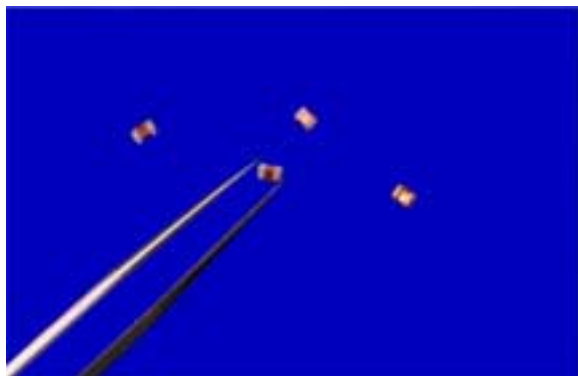


0603 Surface Mount



Specifications & Standard Values

Part Number	L @ Freq. (nH Mhz)	Available Tolerances	Q @ Freq. (Min. Mhz)	SRF (MHz)	DCR (ohm)	I max. (mA)	Material
0603G1R4**E	1.4@250	K,M	20@250	>6000	.030	1000	Alumina
0603G1R5**E	1.5@250	K,M	20@250	>6000	.030	850	
0603G1R8**E	1.8@250	K,M	16@250	>6000	.040	850	
0603G2R0**E	2.0@250	K,M	11@250	>6000	.080	700	
0603G2R9**E	3.9@250	K,M	22@250	>6000	.070	800	
0603G4R7**E	4.7@250	K,M	25@250	>6000	.090	750	
0603G5R6**E	5.6@250	K,M	14@250	>5800	.024	750	
0603G6R8**E	6.8@250	K,M	30@250	5800	.100	850	
0603G7R5**E	7.5@250	K,M	30@250	5500	0.10	850	
0603G8R6**E	8.6@250	K,M	30@250	5500	.100	850	
0603G100**E	10@250	J,K	31@250	5000	.160	850	
0603G120**E	12@250	J,K	35@250	4000	.110	750	
0603G150**E	15@250	J,K	35@250	4000	.140	750	
0603G180**E	18@250	J,K	35@250	3100	.150	750	
0603G220**E	22@250	J,K	38@250	3000	.180	700	
0603G270**E	27@250	G,J	40@250	2900	.210	700	
0603G330**E	33@250	G,J	40@250	2300	.180	700	
0603G390**E	39@250	G,J	40@250	2200	.220	700	
0603G470**E	47@200	G,J	38@200	2100	.230	600	
0603G560**E	56@200	G,J	40@200	2000	.240	600	
0603G620**E	62@200	G,J	37@200	2000	.250	600	
0603G680**E	68@200	G,J	37@200	2000	.340	600	
0603G720**E	72@150	G,J	34@150	1900	.390	500	
0603G770**E	77@150	G,J	34@150	1900	.390	500	
0603G900**E	90@150	G,J	34@150	1800	.600	400	
0603G101**E	100@150	G,J	34@150	1800	.600	400	
0603G111**E	110@150	G,J	32@150	1500	.650	400	
0603G121**E	120@150	G,J	32@150	1450	.700	400	
0603G131**E	130@150	G,J	32@150	1400	.800	400	
0603G151**E	150@150	G,J	32@150	1380	1.10	380	
0603G181**E	180@150	G,J	25@150	1350	1.15	350	
0603G201**E	200@150	G,J	25@150	1200	1.20	350	
0603G221**E	220@100	G,J	25@150	700	1.40	310	
0603G271**E	270@25	G,J	16@25	600	1.4	300	
0603G331**E	330@25	G,J	14@25	300	1.5	280	
0603G391**E	390@25	G,J	16@25	240	1.5	270	
0603G471**E	470@25	G,J	16@25	230	2.25	220	
0603G561**E	560@25	J,K	16@25	150	2.5	200	
0603G681**E	680@25	K	16@25	140	3.0	140	

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.

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)

INDUCTANCE (Nanohenrys)

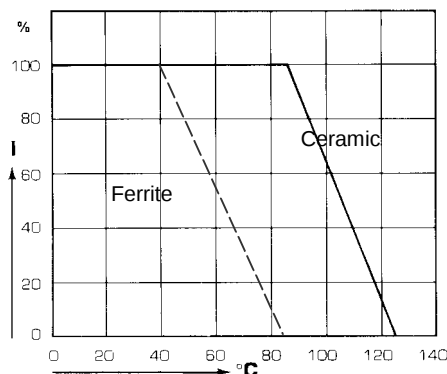
COATING
 Epoxy
 Encapsulation

***PACKAGING**

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

EXAMPLE: 1008 size 1500nh 10% tape & reel

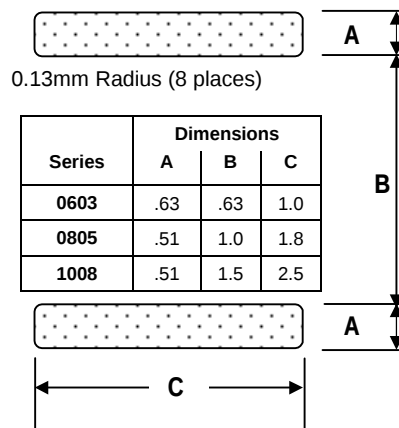
Current Carrying Capability
 Dependant on the ambient temperature. These measurements were conducted with coils soldered on AL(2)O(3) substrates, size 10 x 10 mm.



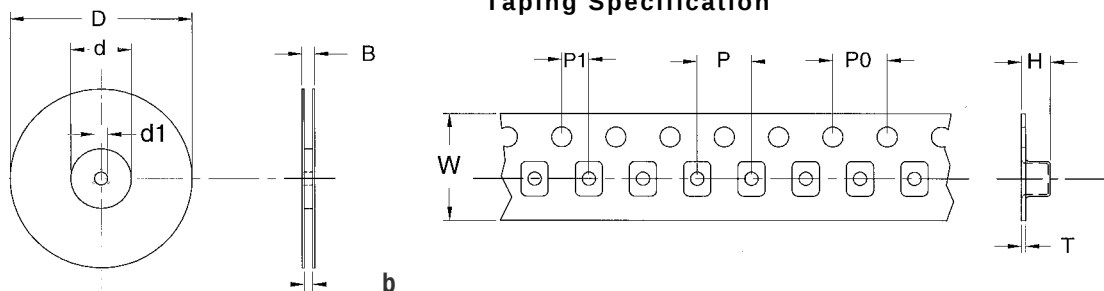
Technical Data

- 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

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

