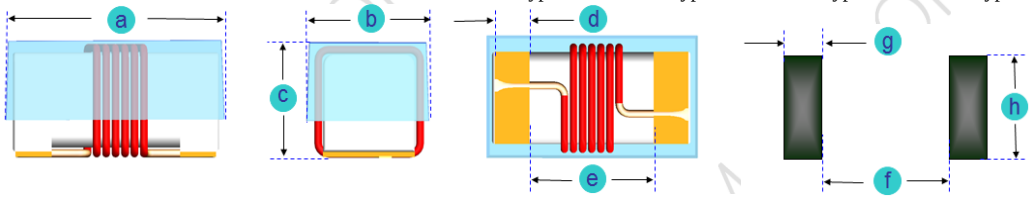
A. Electrical Specifications:

P/N	L (nH)	Tol.	L Test Freq. (MHz)	Q Min.	Q Test Freq. (MHz)	SRF Min. (GHz)	DCR Max. (Ω)	I rms. Max. (A)	1st Color	2nd Color	3rd Color
1008C-5N6_	5.6	K, J	50	50	1500	4.00	0.15	1.00	Green	Blue	Black
1008C-10N_	10	K, J	50	50	500	4.10	0.08	1.00	Brown	Black	Black
1008C-12N_	12	K, J	50	50	500	3.30	0.09	1.00	Brown	Red	Black
1008C-15N_	15	K, J	50	50	500	2.50	0.10	1.00	Brown	Green	Black
1008C-18N_	18	K, J, G	50	50	350	2.50	0.11	1.00	Brown	Gray	Black
1008C-22N_	22	K, J, G	50	55	350	2.40	0.12	1.00	Red	Red	Black
1008C-24N_	24	K, J, G	50	50	350	1.50	0.13	1.00	Red	Yellow	Black
1008C-27N_	27	K, J, G	50	55	350	1.60	0.13	1.00	Red	Violet	Black
1008C-33N_	33	K, J, G	50	60	350	1.60	0.14	1.00	Orange	Orange	Black
1008C-36N	36	K, J, G	50	60	350	1.60	0.15	1.00	Orange	Blue	Black
1008C-39N_	39	K, J, G	50	60	350	1.50	0.15	1.00	Orange	White	Black
1008C-47N_	47	K, J, G	50	65	350	1.50	0.16	1.00	Yellow	Violet	Black
1008C-56N_	56	K, J, G	50	65	350	1.30	0.18	1.00	Green	Blue	Black
1008C-62N_	62	K, J, G	25	45	350	1.25	0.20	1.00	Blue	Red	Black
1008C-68N_	68	K, J, G	50	65	350	1.30	0.20	1.00	Blue	Gray	Black
1008C-82N_	82	K, J, G	50	60	350	1.00	0.22	1.00	Gray	Red	Black
1008C-91N_	91	K, J, G	50	50	350	1.00	0.45	1.00	White	Brown	Black
1008C-R10_	100	K, J, G	25	60	350	1.00	0.56	0.650	Brown	Black	Brown
1008C-R12_	120	K, J, G	25	60	350	0.950	0.63	0.650	Brown	Red	Brown
1008C-R15_	150	K, J, G	25	45	100	0.850	0.70	0.580	Brown	Green	Brown
1008C-R18_	180	K, J, G	25	45	100	0.750	0.77	0.620	Brown	Gray	Brown
1008C-R20_	200	K, J, G	25	50	100	0.750	0.81	0.500	Red	Black	Brown
1008C-R22_	220	K, J, G	25	45	100	0.700	0.84	0.500	Red	Red	Brown
1008C-R24_	240	K, J, G	25	50	100	0.600	0.84	0.500	Red	Yellow	Brown
1008C-R27_	270	K, J, G	25	45	100	0.600	0.91	0.500	Red	Violet	Brown
1008C-R30_	300	K, J, G	25	40	100	0.500	1.05	0.660	Orange	Black	Brown
1008C-R33_	330	K, J, G	25	45	100	0.570	1.05	0.450	Orange	Orange	Brown
1008C-R36_	360	K, J, G	25	40	100	0.500	1.05	0.660	Orange	Blue	Brown
1008C-R39_	390	K, J, G	25	45	100	0.500	1.12	0.470	Orange	White	Brown
1008C-R43_	430	K, J, G	25	45	100	0.425	1.19	0.600	Yellow	Orange	Brown
1008C-R47_	470	K, J, G	25	45	100	0.450	1.19	0.470	Yellow	Violet	Brown
1008C-R56_	560	K, J, G	25	45	100	0.415	1.33	0.400	Green	Blue	Brown
1008C-R62_	620	K, J, G	25	45	100	0.375	1.40	0.300	Blue	Red	Brown
1008C-R68_	680	K, J, G	25	45	100	0.375	1.47	0.400	Blue	Gray	Brown
1008C-R75_	750	K, J, G	25	45	100	0.360	1.54	0.360	Violet	Green	Brown
1008C-R82_	820	K, J, G	25	45	100	0.350	1.61	0.400	Gray	Red	Brown
1008C-R91_	910	K, J, G	25	35	50	0.320	1.68	0.380	White	Brown	Brown
1008C-1R0_	1000	K, J, G	25	35	50	0.290	1.75	0.370	Brown	Black	Red
1008C-1R2_	1200	K, J, G	7.9	35	50	0.250	2.00	0.310	Brown	Red	Red
1008C-1R5_	1500	K, J, G	7.9	28	50	0.200	2.30	0.330	Brown	Green	Red
1008C-1R8_	1800	K, J, G	7.9	28	50	0.160	2.60	0.300	Brown	Gray	Red
1008C-2R0_	2000	K, J, G	7.9	25	50	0.160	2.80	0.280	Red	Black	Red
1008C-2R2_	2200	K, J, G	7.9	28	50	0.160	2.80	0.280	Red	Red	Red
1008C-2R7_	2700	K, J, G	7.9	22	25	0.140	3.20	0.290	Red	Violet	Red
1008C-3R3_	3300	K, J, G	7.9	22	25	0.110	3.40	0.290	Orange	Orange	Red
1008C-3R9_	3900	K, J, G	7.9	20	25	0.100	3.60	0.260	Orange	White	Red
1008C-4R7_	4700	K, J, G	7.9	20	25	0.090	4.00	0.260	Yellow	Violet	Red
1008C-5R6_	5600	K, J	7.9	16	7.96	0.020	4.00	0.240	Green	Blue	Red
1008C-6R8_	6800	K, J	7.9	15	7.96	0.040	4.90	0.200	Blue	Gray	Red
1008C-8R2_	8200	K, J	7.9	15	7.96	0.025	6.00	0.170	Gray	Red	Red
1008C-100_	10000	K, J	2.52	15	7.96	0.020	9.00	0.150	Brown	Black	Orange
1008C-120_	12000	K, J	2.52	15	7.96	0.018	10.5	0.130	Brown	Red	Orange
1008C-150_	15000	K, J	2.52	15	7.96	0.015	11.5	0.120	Brown	Green	Orange

B. Dimensions: mm (Inch)

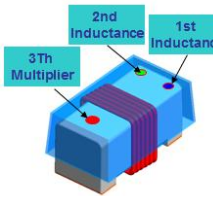
Series	a	b	c	d	e	f	g	h
1008C	2.92(0.115)	2.79 (0.110)	2.03(0.080)	0.51(0.020)	1.52(0.060)	1.27 (0.050)	1.02 (0.040)	2.54 (0.100)
Tol.	Max.	Max.	Max.	Typ.	Typ.	Typ.	Typ.	Typ.



C. Color coding:

1. Parts are marked with 3 color dots. The table below shows the significance of each color.
2. Dots 1 and 2 indicate the inductance in nano-Henries.
3. Dots 3 indicate number of zeroes to be added.

0 = Black	5=Green
1 = Brown	6=Blue
2 = **Red**	7 = Violet
3 = **Orange**	8 = Gray
4 = Yellow	9 = White



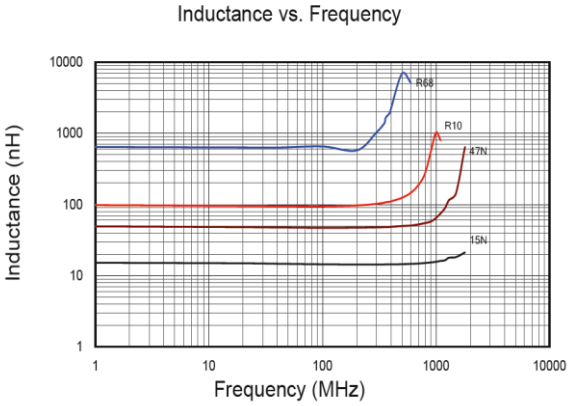
D. General Information:

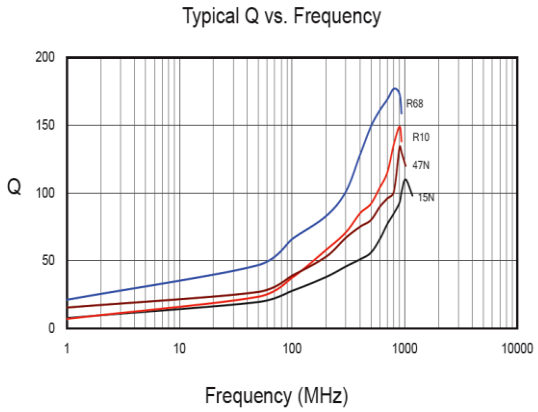
1. P/N: 1008C-xxx_, "1008" = Size Type, "C" = Gold plated pads, "xxx" = Inductance, "_" = Tolerance.
2. Tolerance "_": K = ± 10%, J = ± 5%, G = ± 2%.
3. Product material: Ceramic.
4. Small and lightweight surface mounting type.
5. High Q at high frequency & High self-resonance frequency.
6. For 15ºC Temperature Rise at 25ºC ambient.
7. Inductance & Q measured with HP4291B Impedance Analyzer.
8. SRF measured using the HP8720D or HP8753E Network Analyzer.
9. DCR measured using the 16502 milliohm meter.
10. Operating temperature: -40°C to +125ºC.
11. This series has no color code due to the size is small.
12. Inductance and Current Range: From 10 nH (1.0A) to 4700 nH (0.260A)
13. SRF: From 0.09 GHz to 4.1 GHz
14. MSL: Level 1.

E. Applications:

1. Game Consoles
2. Set Top Boxes
3. Cables Modems
4. Computers
5. Mobile Communication Devices (Cell Phones, Radios, etc.)
6. RF Filters

F. Characteristics Curve:

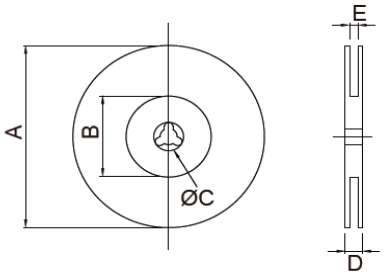




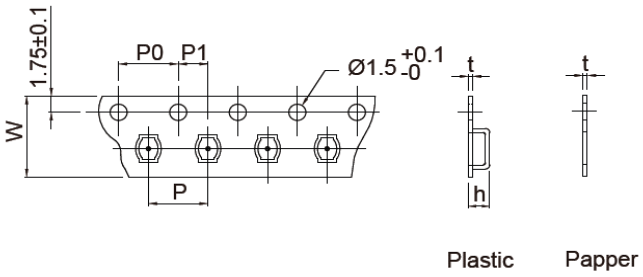
G. Supplementary Information:

1. Packaging Information

CARRIER TAPE REELS



TAPE DIMENSIONS (mm)



Series P/N	Reel dimensions (mm)					Tape dimensions (mm)						Parts per reel		Quantity per	
	A	B	C	D	E	W	P	P0	P1	h	t	7”	13”	Box	Carton
1008C	180	75	13	12.5	8.5	8	4	4	2	2.30	0.25	2,000	---	10,000	60,000

2. RoHS Reflow Solder Profile