

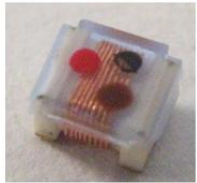
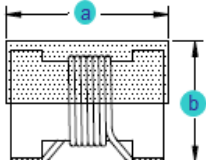
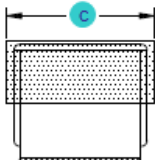
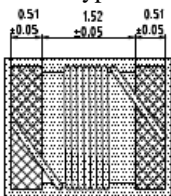
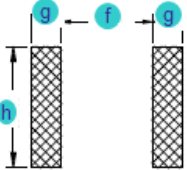
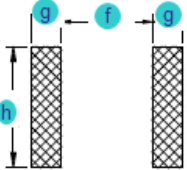
A. Electrical Specifications:

P/N	L (nH)	Tol.	L Test Freq. (MHz)	Q Min.	Q Test Freq. (MHz)	SRF Min. (GHz)	DCR (Ω) Max.	I _{rms} (A)	COLOR CODE		
									1st	2nd	multiplier
1008HQ-3N0_	3.0	J	50	70	1500	8.10	0.04	1.6	ORANGE	BLACK	BLACK
1008HQ-4N1_	4.1	J	50	75	1500	6.20	0.05	1.6	YELLOW	BROWN	BLACK
1008HQ-7N8_	7.8	J	50	75	500	3.80	0.05	1.6	VIOLET	GRAY	BLACK
1008HQ-10N_	10	J, G	50	60	500	3.60	0.06	1.6	BROWN	BLACK	BROWN
1008HQ-12N_	12	J, G	50	70	500	2.80	0.06	1.5	BROWN	RED	BROWN
1008HQ-18N_	18	J, G	50	62	350	2.70	0.07	1.4	BROWN	GRAY	BROWN
1008HQ-22N_	22	J, G	50	62	350	2.05	0.07	1.4	RED	RED	BROWN
1008HQ-33N_	33	J, G	50	75	350	1.70	0.09	1.3	ORANGE	ORANGE	BROWN
1008HQ-36N_	36	J, G	50	65	350	1.40	0.09	1.3	ORANGE	BLUE	BROWN
1008HQ-39N_	39	J, G	50	75	350	1.30	0.09	1.3	ORANGE	WHITE	BROWN
1008HQ-47N_	47	J, G	50	75	350	1.45	0.12	1.2	YELLOW	VIOLET	BROWN
1008HQ-56N_	56	J, G	50	75	350	1.23	0.12	1.2	GREEN	BLUE	BROWN
1008HQ-68N_	68	J, G	50	80	350	1.15	0.13	1.1	BLUE	GRAY	BROWN
1008HQ-82N_	82	J, G	50	80	350	1.06	0.16	1.1	GRAY	RED	BROWN
1008HQ-R10_	100	J, G	50	62	350	0.82	0.16	1.0	BROWN	BLACK	RED

Note: Termination: Tin plating is standard.

B. Dimensions: mm (Inch)

Series	a	b	c	f	g	h
1008HQ	2.92 (0.115)	2.03 (0.080)	2.79 (0.110)	1.27 (0.050)	1.02 (0.0402)	2.54 (0.10)
Tol.	MAX.	MAX.	MAX.	Typ.	Typ.	Typ.

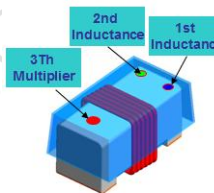







Recommended Patterns

C. Color coding:

- Parts are marked with 3 color dots. The table at below shows the significance of each color.
- Dots 1 and 2 indicate the inductance in nano-Henries.
- Dot 3 indicates 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



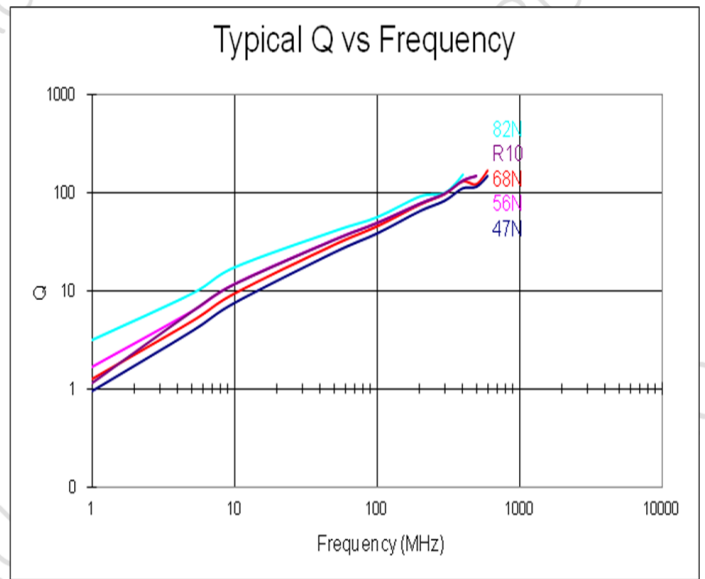
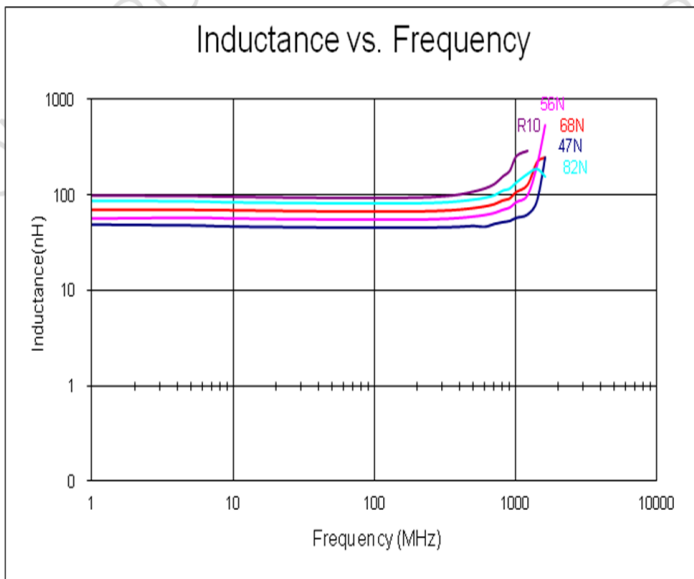
D. General Information:

- P/N: 1008HQ-xxx_ , “1008HQ” = Size Type, “xxx” = Inductance, “_” = Tolerance.
- Tolerance “_”: J = $\pm 5\%$, G = $\pm 2\%$.
- Small and lightweight surface mounting type.
- High Q at high frequency & High self-resonance frequency.
- For 15°C Temperature Rise at 25°C ambient.
- Inductance & Q measured with 4287A with 16197A.
- SRF measured using the HP8753E or HP4291B with 16193A/ENA5017C or equivalent.
- DCR measured using the Agilent 4338B.
- Operating temperature: -40°C to +125°C.
- 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

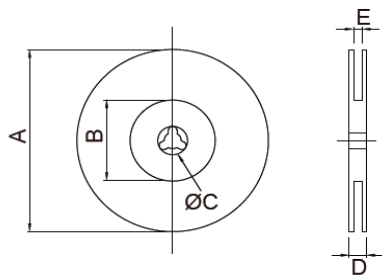
F. Characteristics Curve:



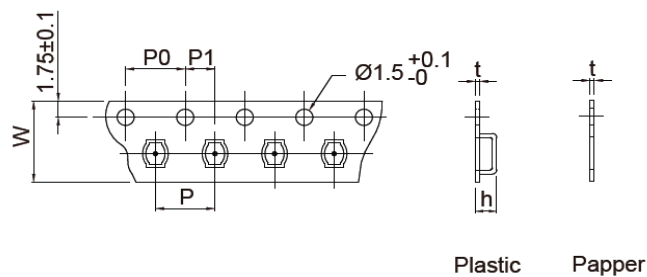
G. Supplementary Information:

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
1008HQ	178	75	13	12.5	8.5	8	4	4	2	---	---	3,000	---	15,000	90,000

2. RoHS Reflow Solder Profile

Typical RoHS Reflow Profile

