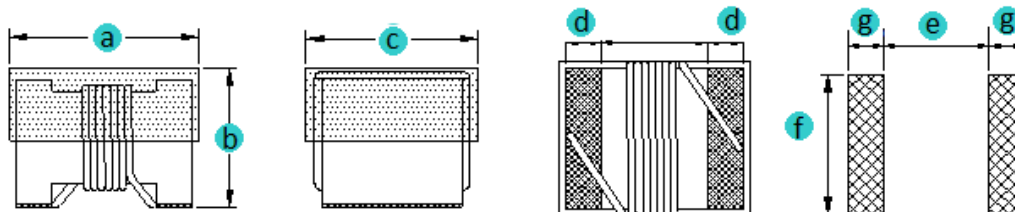


Ultra High SRF and Ultra High-Q Wire Wound Ceramic Core Chip Inductors
 Inductance: 3.0 ~ 100nH
 Case size: 1008 EIA, 2520 Metric. Tin plated termination.

ELECTRICAL SPECIFICATIONS:

P/N	L (nH)	Tol.	L Test Freq. (MHz)	Q Min.	Q Test Freq.	SRF Min. (GHz)	DCR Max. (Ω)	Rated Current Max. (A)	1 st Color	2 nd Color	3 rd Color
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

DIMENSIONS: mm (inch)



Series	a	b	c	d	e	f	g
1008HQ	2.92 (0.115)	2.03 (0.080)	2.79 (0.110)	0.51 (0.020)	1.27 (0.050)	2.54 (0.10)	1.02 (0.0402)
Tol.	Max.	Max.	Max.	0.05 (0.00196)	Typ.	Typ.	Typ.

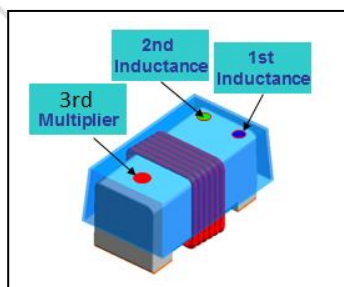
GENERAL INFORMATION:

P/N: 1008HQ-xxx_, 1008” = EIA Case Size, “HQ” = Ultra High-Q, “xxx” = Inductance, “_” = Tolerance (G: ± 2%, J: ± 5%, K: ± 10%)
 Core material: Ceramic
 Operating temperature: -40°C to +125°C
 Maximum Temperature Rise: 15°C (when measured at 25°C ambient)
 Inductance & Q measured with HP4287A with 16197A test fixture
 Inductance & Q measured with HP8753E/HP4291B with 16193A/ENA5071C or equivalent test fixture
 DCR measured using Zentech 502BC or its equivalent
 MSL: Level 1

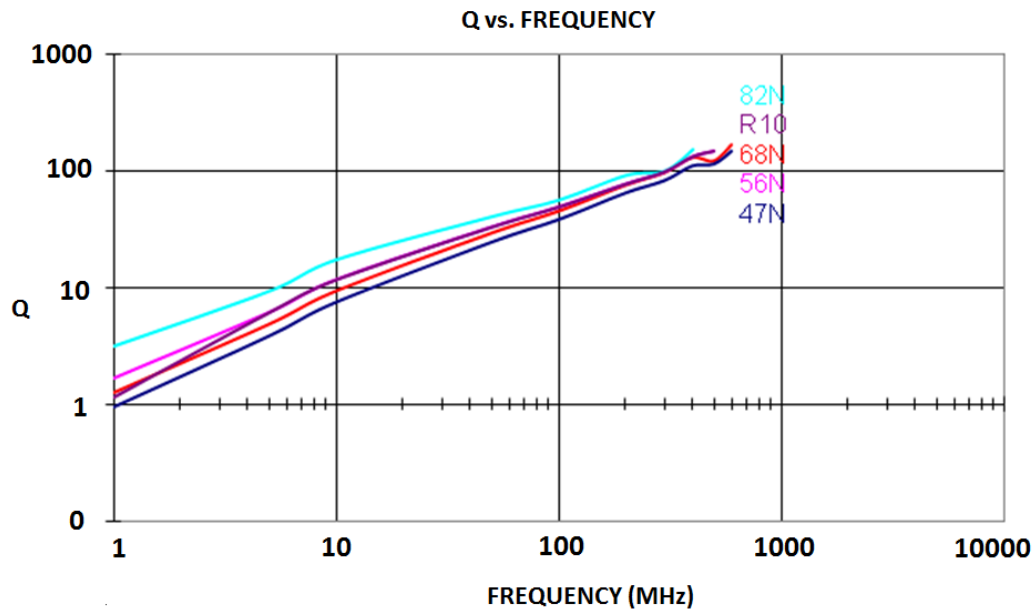
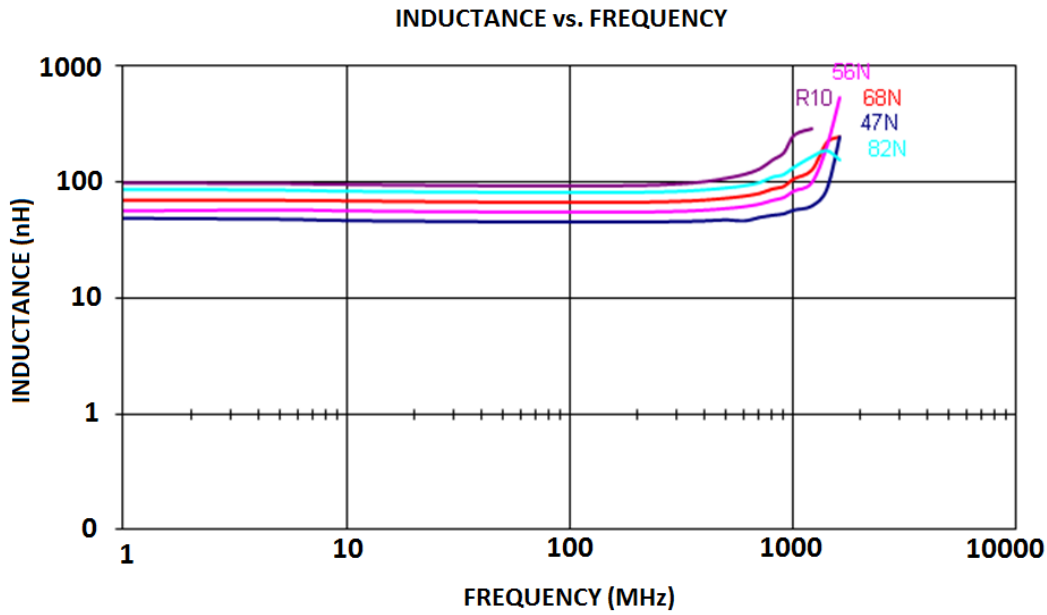
COLOR CODES:

Parts are marked with 3 dots.
 Dots 1 and 2 indicate the inductance in nano-Henries.
 Dot 3 indicates number of zeroes

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

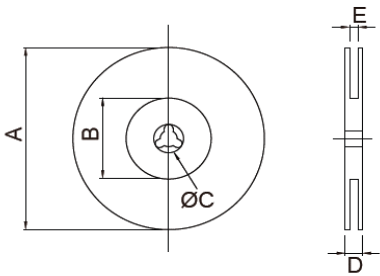


ELECTRICAL CHARACTERISTICS:

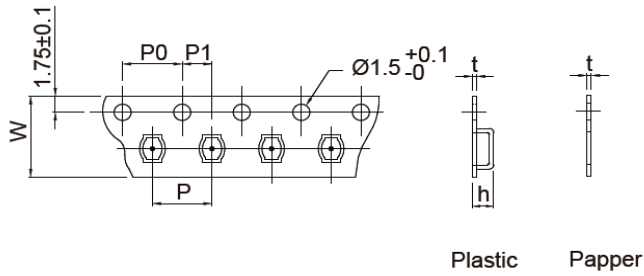


PACKAGING INFORMATION:

CARRIER TAPE REELS



TAPE DIMENSIONS (mm)



Series	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

RoHS REFLOW SOLDERING PROFILE:

Typical RoHS Reflow Profile

