



### Feature

1. Monolithic structure
2. Closed magnetic circuit avoids crosstalk
3. S.M.T. type
4. Suitable for flow and reflow soldering
5. Shapes and dimensions follow E.I.A. SPEC
6. Available in various sizes
7. Excellent soldering ability and heat resistance
8. High S.R.F. up to 6 GHz and above

### Application

Wireless communications, cellular phone, cordless phone, pager, etc.

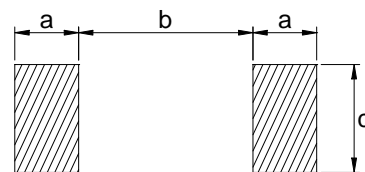
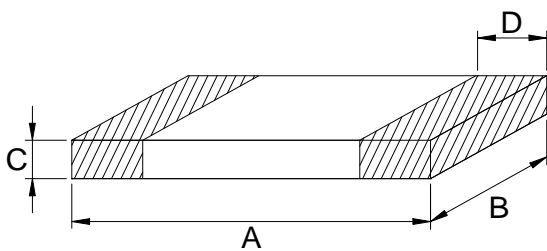
Miscellaneous high-frequency circuits. EMI countermeasure in high-frequency circuits.

### Product Identification

**QHL 2012 3N3 K - LF**  
 1      2      3      4      5

1. Series name.
2. Dimension.( See Details )
3. Inductance.( See Details
4. Tolerance.( See Detail
5. Lead-Free part number

### Configurations & Dimensions



PCB Pattern

Series Name	A	B	C	D	a	b	c
QHL1005	1.0 ± 0.1	0.5 ± 0.1	0.5 ± 0.1	0.25 ± 0.1	0.80	0.50	0.55
QHL1608	1.6 ± 0.15	0.8 ± 0.15	0.8 ± 0.15	0.3 ± 0.2	1.00	0.60	0.80
QHL2012	2.0 ± 0.2	1.25 ± 0.2	0.85 ± 0.2	0.5 ± 0.3	1.00	1.00	1.00
QHL2012H	2.0 ± 0.2	1.25 ± 0.2	1.25 ± 0.2	0.5 ± 0.3	1.00	1.00	1.00

Unit: mm

## Ceramic Chip Inductors / QHL Series

### ■ Electrical Characteristics / QHL1005

System Number	Part Number	Inductance ( nH )	Q Value Min	Test Frequency ( MHz )	DC Resistance Max. ( mΩ )	Rated Current Max. ( mA )
WP46O0000-00	QHL1005-1N0 __	1.0	8	100	90	300
WP46O0001-00	QHL1005-1N2 __	1.2	8	100	90	300
WP46O0002-00	QHL1005-1N5 __	1.5	8	100	120	300
WP46O0003-00	QHL1005-1N8 __	1.8	8	100	120	300
WP46O0004-00	QHL1005-2N2 __	2.2	8	100	140	300
WP46O0005-00	QHL1005-2N7 __	2.7	8	100	140	300
WP46O0006-00	QHL1005-3N3 __	3.3	8	100	160	300
WP46O0007-00	QHL1005-3N9 __	3.9	8	100	190	300
WP46O0008-00	QHL1005-4N7 __	4.7	8	100	210	300
WP46O0009-00	QHL1005-5N6 __	5.6	8	100	230	300
WP46O000A-00	QHL1005-6N8 __	6.8	8	100	250	300
WP46O000B-00	QHL1005-8N2 __	8.2	8	100	280	300
WP46O0010-00	QHL1005-10N __	10	8	100	310	300
WP46O0011-00	QHL1005-12N __	12	8	100	400	300
WP46O0012-00	QHL1005-15N __	15	8	100	500	300
WP46O0013-00	QHL1005-18N __	18	8	100	550	300
WP46O0014-00	QHL1005-22N __	22	8	100	600	300
WP46O0015-00	QHL1005-27N __	27	8	100	700	300
WP46O0016-00	QHL1005-33N __	33	8	100	800	300
WP46O0017-00	QHL1005-39N __	39	8	100	1,000	200
WP46O0018-00	QHL1005-47N __	47	8	100	1,200	200
WP46O0019-00	QHL1005-56N __	56	8	100	1,300	200
WP46O001A-00	QHL1005-68N __	68	8	100	2,000	180
WP46O001B-00	QHL1005-82N __	82	8	100	2,200	150
WP46O0020-00	QHL1005-R10 __	100	8	100	2,500	150
WP46O0021-00	QHL1005-R12 __	120	8	100	2,700	150

## Ceramic Chip Inductors / QHL Series

### ■ Electrical Characteristics / QHL1608

System Number	Part Number	Inductance ( nH )	Q Value Min	Test Frequency ( MHz )	DC Resistance Max. ( mΩ )	Rated Current Max. ( mA )
WP46O0100-00	QHL1608-1N0 __	1.0	8	100	50	300
WP46O0101-00	QHL1608-1N2 __	1.2	8	100	50	300
WP46O0102-00	QHL1608-1N5 __	1.5	8	100	100	300
WP46O0103-00	QHL1608-1N8 __	1.8	8	100	100	300
WP46O0104-00	QHL1608-2N2 __	2.2	8	100	100	300
WP46O0105-00	QHL1608-2N7 __	2.7	10	100	100	300
WP46O0106-00	QHL1608-3N3 __	3.3	10	100	120	300
WP46O0107-00	QHL1608-3N9 __	3.9	10	100	140	300
WP46O0108-00	QHL1608-4N7 __	4.7	10	100	160	300
WP46O0109-00	QHL1608-5N6 __	5.6	10	100	180	300
WP46O010A-00	QHL1608-6N8 __	6.8	10	100	220	300
WP46O010B-00	QHL1608-8N2 __	8.2	10	100	240	300
WP46O0110-00	QHL1608-10N __	10	12	100	260	300
WP46O0111-00	QHL1608-12N __	12	12	100	280	300
WP46O0112-00	QHL1608-15N __	15	12	100	320	300
WP46O0113-00	QHL1608-18N __	18	12	100	350	300
WP46O0114-00	QHL1608-22N __	22	12	100	400	300
WP46O0115-00	QHL1608-27N __	27	12	100	450	300
WP46O0116-00	QHL1608-33N __	33	12	100	550	300
WP46O0117-00	QHL1608-39N __	39	12	100	600	300
WP46O0118-00	QHL1608-47N __	47	12	100	700	300
WP46O0119-00	QHL1608-56N __	56	12	100	750	300
WP46O011A-00	QHL1608-68N __	68	12	100	850	300
WP46O011B-00	QHL1608-82N __	82	12	100	950	300
WP46O0120-00	QHL1608-R10 __	100	12	100	1,000	300
WP46O0121-00	QHL1608-R12 __	120	8	50	1,200	300
WP46O0122-00	QHL1608-R15 __	150	8	50	1,200	300
WP46O0123-00	QHL1608-R18 __	180	8	50	1,300	300
WP46O0124-00	QHL1608-R22 __	220	8	50	1,500	300
WP46O0125-00	QHL1608-R27 __	270	8	50	1,900	150

## Ceramic Chip Inductors / QHL Series

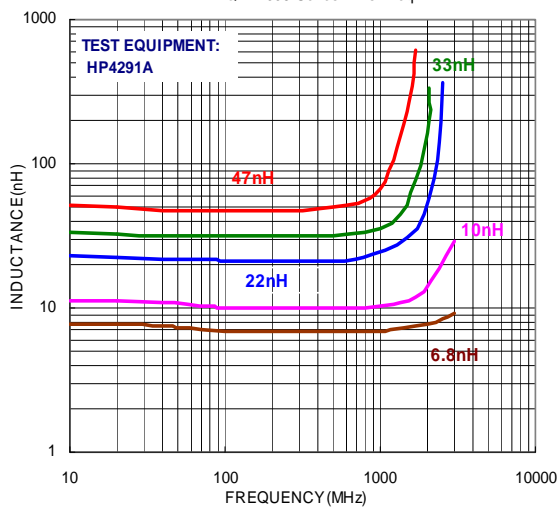
### ■ Electrical Characteristics / QHL2012 & QHL2012H

System Number	Part Number	Inductance ( nH )	Q Value Min	Test Frequency ( MHz )	DC Resistance Max. ( mΩ )	Rated Current Max. ( mA )
WP46O0202-00	QHL2012-1N5 __	1.5	10	100	100	300
WP46O0203-00	QHL2012-1N8 __	1.8	10	100	100	300
WP46O0204-00	QHL2012-2N2 __	2.2	10	100	100	300
WP46O0205-00	QHL2012-2N7 __	2.7	12	100	100	300
WP46O0206-00	QHL2012-3N3 __	3.3	12	100	130	300
WP46O0207-00	QHL2012-3N9 __	3.9	12	100	150	300
WP46O0208-00	QHL2012-4N7 __	4.7	12	100	200	300
WP46O0209-00	QHL2012-5N6 __	5.6	15	100	230	300
WP46O020A-00	QHL2012-6N8 __	6.8	15	100	250	300
WP46O020B-00	QHL2012-8N2 __	8.2	15	100	280	300
WP46O0210-00	QHL2012-10N __	10	15	100	300	300
WP46O0211-00	QHL2012-12N __	12	15	100	350	300
WP46O0212-00	QHL2012-15N __	15	15	100	400	300
WP46O0213-00	QHL2012-18N __	18	15	100	450	300
WP46O0214-00	QHL2012-22N __	22	18	100	500	300
WP46O0215-00	QHL2012-27N __	27	18	100	550	300
WP46O0216-00	QHL2012-33N __	33	18	100	600	300
WP46O0217-00	QHL2012-39N __	39	18	100	650	300
WP46O0218-00	QHL2012-47N __	47	18	100	700	300
WP46O0219-00	QHL2012-56N __	56	18	100	750	300
WP46O021A-00	QHL2012-68N __	68	18	100	800	300
WP46O021B-00	QHL2012-82N __	82	18	100	900	300
WP46O0320-00	QHL2012H-R10 __	100	18	100	900	300
WP46O0321-00	QHL2012H-R12 __	120	13	50	950	300
WP46O0322-00	QHL2012H-R15 __	150	13	50	100	300
WP46O0323-00	QHL2012H-R18 __	180	13	50	1100	300
WP46O0324-00	QHL2012H-R22 __	220	12	50	1200	300
WP46O0325-00	QHL2012H-R27 __	270	12	50	1300	300
WP46O0326-00	QHL2012H-R33 __	330	12	50	1400	300
WP46O0327-00	QHL2012H-R39 __	390	10	50	1300	300
WP46O0328-00	QHL2012H-R47 __	470	10	50	1500	300

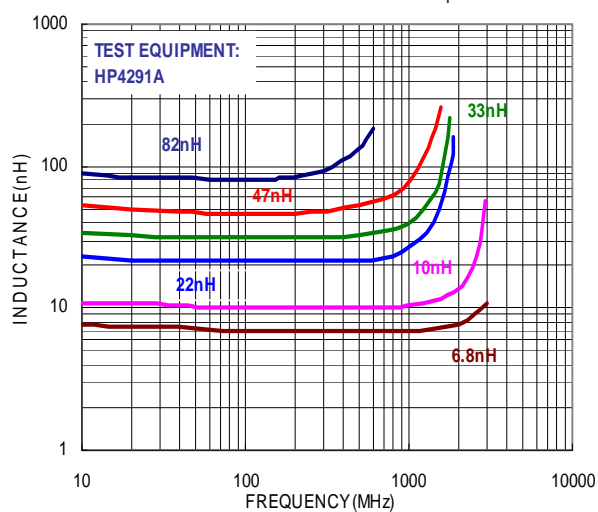
# Ceramic Chip Inductors / QHL Series

## Electrical Curve / QHL1005 & QHL1608

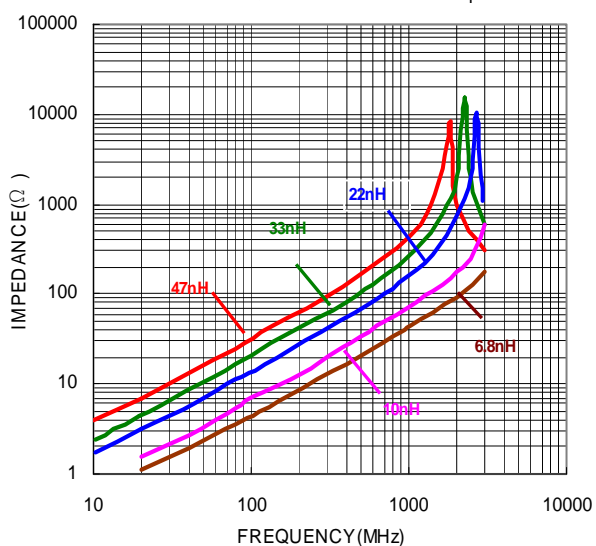
QHL1005-Series L vs Freq



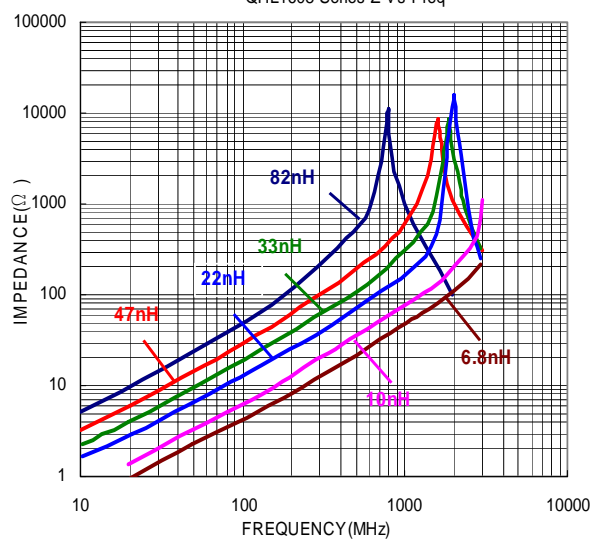
QHL1608-Series L vs Freq



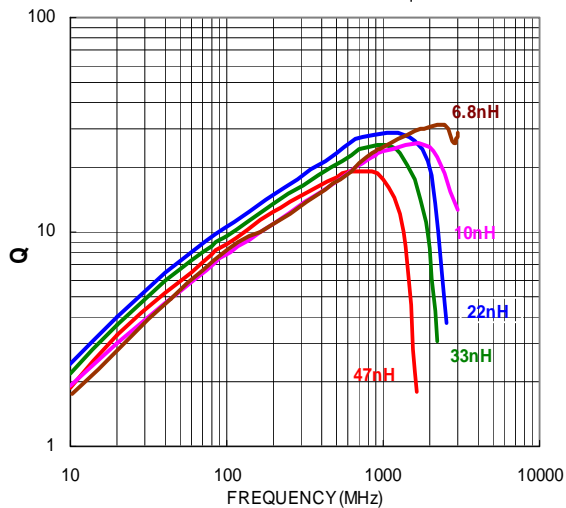
QHL1005-Series Z vs Freq



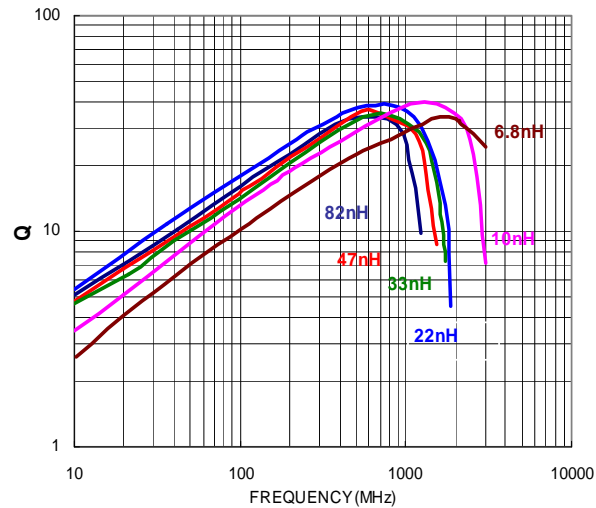
QHL1608-Series Z vs Freq



QHL1005-Series Q vs Freq



QHL1608-Series Q vs Freq



## Ceramic Chip - BEAD QHL Series

### Electrical Curve / QHL2012

