

## Ceramic Chip Inductor-FHI Series

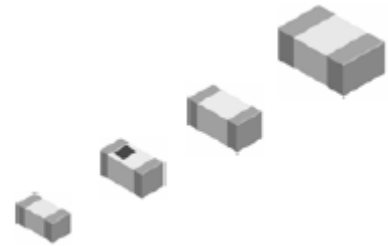
### 陶瓷高频贴片电感-FHI 系列

#### Feature

- Supports operating frequency bands up to 10GHz with normal.
- Inductance from 1to 560nH
- Provide high Q characteristics.
- Monolithic structure for high reliability.

#### 特性

高频特性，可应用于 10 于 GHz 以上的频段；  
电感值从 1nH 至 560nH；高 Q 值；独石结构，高可靠性。



#### Application

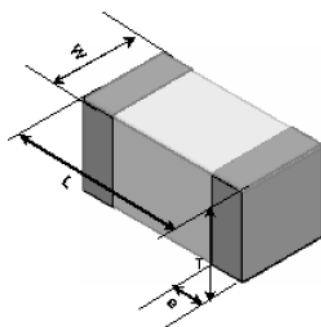
- Mobile phone such as GSM, PHS, CDMA
- Wi-Fi solution
- Wireless phone such as 900M、1.8G、2..4G、5.8G

#### 应用

应用于 GSM, PHS, CDMA 制式的移动电话，无线网卡，900M、1.8G、2..4G、5.8G 无绳电话等通讯类产品的射频电路中。

#### Dimensions

#### 尺寸



Unit:mm [inch]

SERIES	L	W	T	e
0402	1.0±0.15 [.040±.006]	0.5±0.15 [.020±.006]	0.5±0.15 [.020±.006]	0.25±0.1 [.010±.004]
0603	1.60±0.15 [.063±.006]	0.8±0.15 [.031±.006]	0.8±0.15 [.031±.006]	0.3±0.2 [.012±.008]
0805	2.0±0.2 [.079±.008]	1.25±0.2 [.049±.008]	0.85±0.3 [.033±.012] 1.25±0.2 [.049±.008]	0.5±0.3 [.020±.012]

## Ceramic Chip Inductor-FHI Series

### 陶瓷高频贴片电感-FHI 系列

#### 料号编码

#### Identification

FMI	0603	10N	K	T
1	2	3	4	5

1. Product ID

1. 产品料号

2. Dimensions

2. 尺寸

3. Inductance

3. 电感值

(1N0: 1.0nH, 10N:10nH , R10:100nH)

(1N0: 1.0nH, 10N:10nH , R10:100nH )

4. Tolerance

4. 公差

(W:  $\pm 0.1$ nH, C:  $\pm 0.2$ nH, S  $\pm 0.3$ nH,  
D;  $\pm 0.5$ nH, G:  $\pm 2\%$ , J:  $\pm 5\%$ , K:  $\pm 10\%$ )

(W:  $\pm 0.1$ nH, C:  $\pm 0.2$ nH, S:  $\pm 0.3$ nH,  
D;  $\pm 0.5$ nH, G:  $\pm 2\%$ , J:  $\pm 5\%$ , K:  $\pm 10\%$ )

5. Packing, Bulk Package;

5. 包装

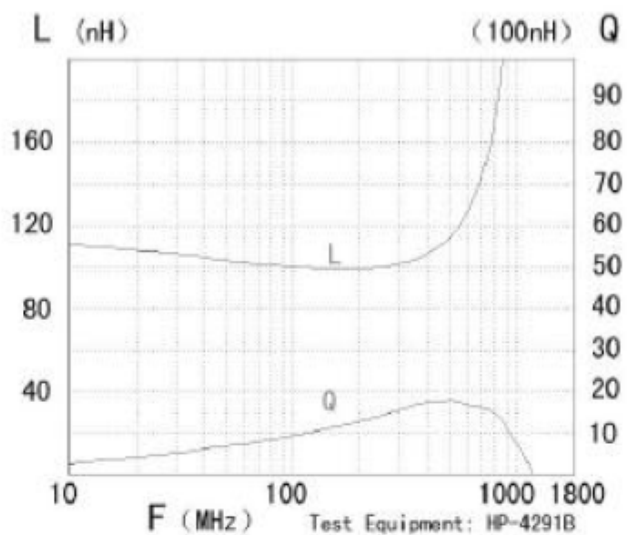
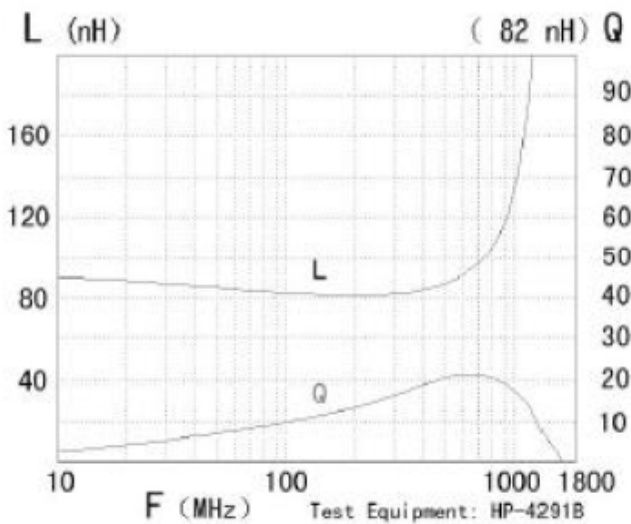
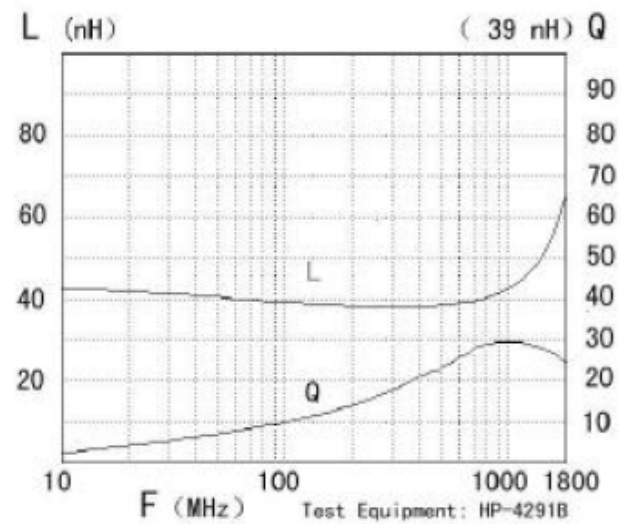
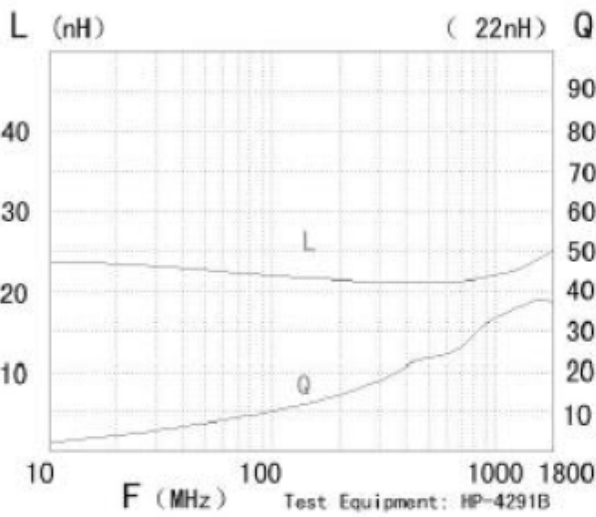
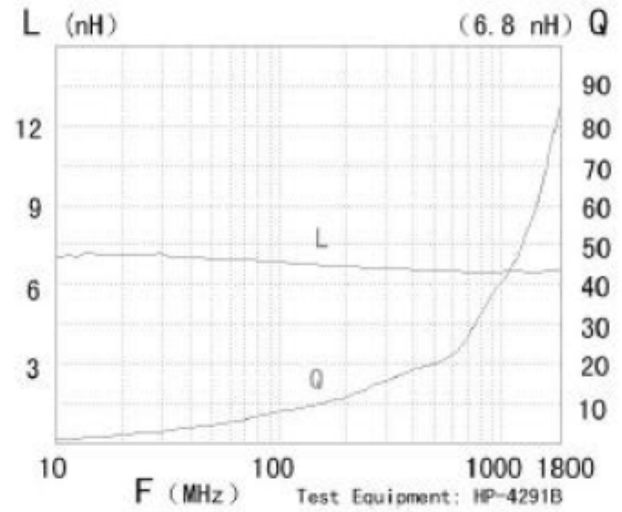
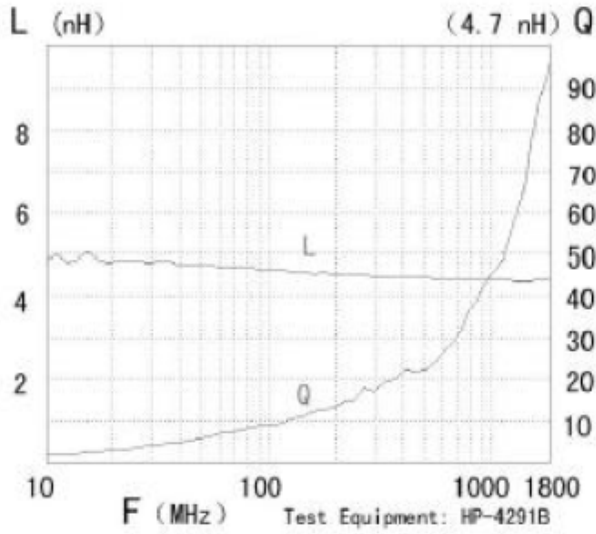
Tape & Reel

### FHI 0402 SERIES

BDC P/N	L (nH)	Tolerance	Q min	L. Q Test Freq. (MHZ)	Q(Typical)-F (MHz)			SRF		DCR max (Ω)	Ir max (mA)
					Q 100	Q 800	Q1000	min (MHz)	Typ. (MHz)		
FHI04021N0	1	±0.1nH ±0.2nH ±0.3nH	8	100	10	34	55	10000	>13000	0.1	300
FHI04021N2	1.2		8	100	10	34	52	10000	>13000	0.1	300
FHI04021N5	1.5		8	100	10	34	52	6000	>13000	0.12	300
FHI04021N8	1.8		8	100	10	30	50	6000	12000	0.12	300
FHI04022N2	2.2		8	100	9	29	48	6000	11000	0.16	300
FHI04022N7	2.7		8	100	9	28	48	6000	11000	0.17	300
FHI04023N3	3.3		8	100	9	28	48	6000	10000	0.19	300
FH04023N9	3.9		8	100	9	28	47	6000	9000	0.22	300
FHI04024N7	4.7		8	100	9	28	48	6000	8000	0.24	300
FHI04025N6	5.6	±0.1nH ±0.2nH ±0.3nH	8	100	9	27	45	5500	6000	0.27	300
FHI04026N8	6.8		8	100	9	28	46	5000	6000	0.32	250
FHI04028N2	8.2		8	100	9	30	45	4000	5000	0.37	250
FHI040210N	10	±2% ±5%	8	100	9	29	40	3600	4900	0.42	250
FHI040212N	12		8	100	10	27	38	3400	4600	0.47	250
FH040215N	15		8	100	10	28	36	3000	4000	0.5	250
FHI040218N	18		8	100	10	26	27	2500	3600	0.55	250
FHI040222N	22		8	100	10	28	25	2000	3400	0.6	200
FHI040227N	27		8	100	10	27	21	1800	2800	0.7	200
FHI040233N	33		8	100	10	25	15	1600	2600	0.8	200
FHI040239N	39		8	100	10	24	8	1500	2400	1	150
FHI040247N	47		8	100	10	23	6	1300	2100	1.1	150
FHI040256N	56		8	100	10	21	-	1200	1900	1.2	150
FHI040268N	68		8	100	10	19	-	1100	1600	1.4	150
FHI040282N	82		8	100	9	16	-	1000	1300	1.6	100
FHI0402R10	100		8	100	9	10	-	900	1100	2	100
FHI0402R12	120	8	100	9	8	-	800	1000	2.2	100	

□Please specify the inductance tolerance:W:±0.1,C:±0.2,S:±0.3,D:±0.5,G:±2%,J:±5% K:10%

## FHI 0402 SERIES ELECTRICAL CHARACTERISTICS

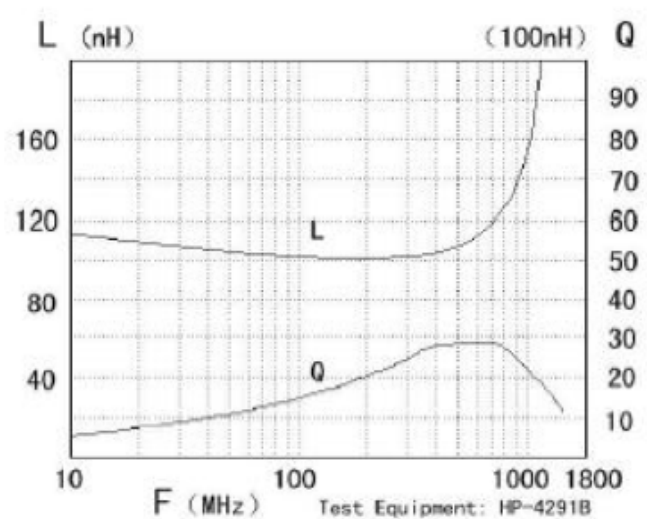
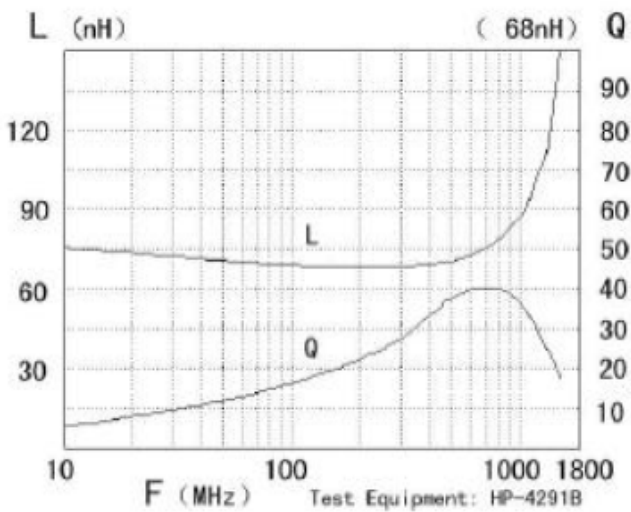
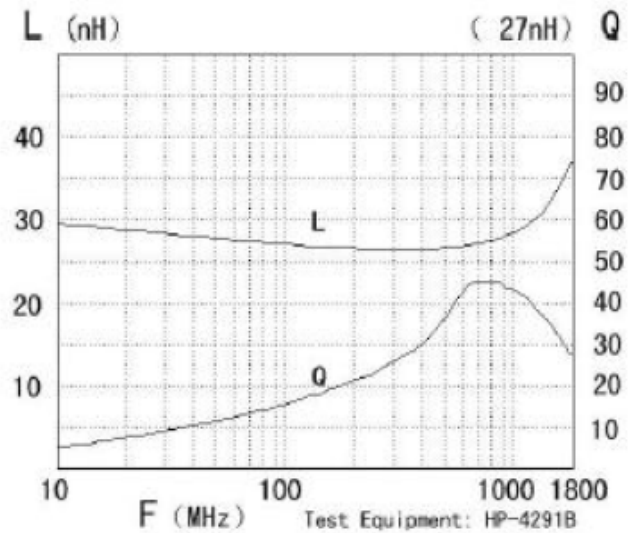
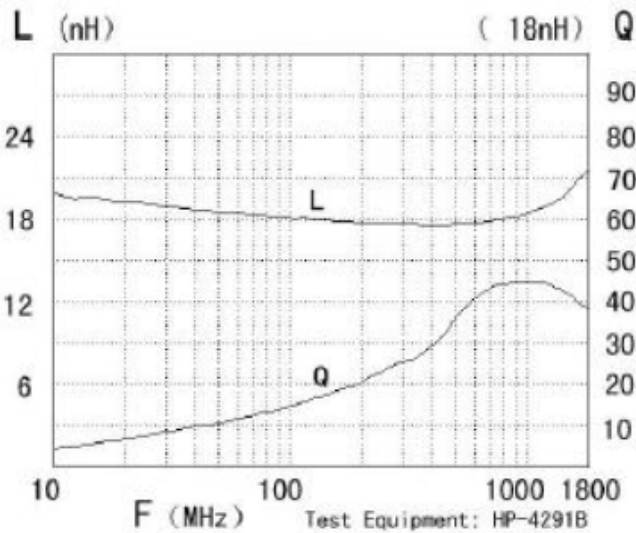
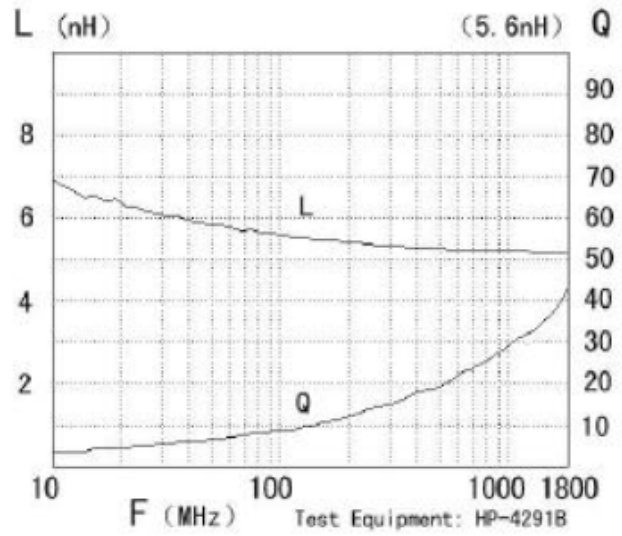
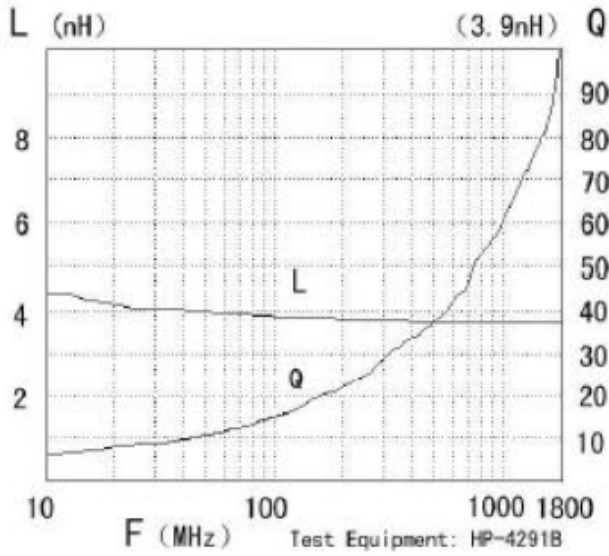


### FHI 0603 SERIES

BDC P/N	L (nH)	Tolerance	Q min	L. Q Test Freq. (MHZ)	Q(Typical)-F (MHz)			SRF		DCR max (Ω)	Ir max (mA)
					Q 100	Q 800	Q1000	min (MHz)	Typ. (MHz)		
FHI06031N0	1	±0.1nH ±0.2nH ±0.3nH	8	100	13	70	126	10000	>13000	0.05	500
FHI06031N2	1.2		8	100	13	70	113	10000	>13000	0.05	500
FHI06031N5	1.5		8	100	13	47	110	10000	>13000	0.1	500
FHI06031N8	1.8		8	100	13	37	107	6000	>13000	0.1	500
FHI06032N2	2.2		8	100	13	37	106	6000	>13000	0.1	500
FHI06032N7	2.7		10	100	13	41	88	6000	12000	0.1	500
FHI06033N3	3.3		10	100	14	42	80	6000	11000	0.12	500
FHI06033N9	3.9		10	100	14	42	75	6000	10000	0.14	500
FHI06034N7	4.7		10	100	12	42	70	6000	9000	0.16	500
FHI06035N6	5.6		±0.1nH ±0.3nH ±0.5nH	10	100	12	42	70	6000	8000	0.18
FHI06036N8	6.8	10		100	12	43	70	5500	6500	0.22	500
FHI06038N2	8.2	10		100	13	44	74	4500	5500	0.24	500
FHI060310N	10	±2% ±5%	12	100	14	43	61	3500	4700	0.26	300
FHI060312N	12		12	100	14	45	60	3000	4200	0.28	300
FHI060315N	15		12	100	14	46	52	2800	4100	0.32	300
FHI060318N	18		12	100	13	44	33	2500	3500	0.35	300
FHI060322N	22		12	100	14	44	28	2000	3200	0.4	300
FHI060327N	27		12	100	15	45	20	2000	2900	0.45	300
FHI060333N	33		12	100	15	46	20	1800	2700	0.55	300
FHI060339N	39		12	100	15	44	18	1600	2400	0.6	300
FHI060347N	47		12	100	16	35	12	1400	2100	0.7	300
FHI060356N	56		12	100	17	34	-	1300	2000	0.75	300
FHI060368N	68		12	100	16	30	-	1300	1900	0.85	300
FHI060382N	82		12	100	15	27	-	1100	1700	0.95	300
FHI0603R10	100		12	100	15	16	-	1000	1500	1.1	300
FHI0603R12	120		8	100	15	-	-	900	1300	1.2	300
FHI0603R15	150		8	50	13	-	-	800	1300	1.4	300
FHI0603R18	180		8	50	13	-	-	600	1200	1.6	300
FHI0603R22	220	8	50	12	-	-	600	1100	1.8	300	

□Please specify the inductance tolerance:W:±0.1nH,C:±0.2nH,S:±0.3nH,D:±0.5nH,G:±2%,J:±5% K:10%

## FHI 0603 SERIES ELECTRICAL CHARACTERISTICS



## FHI 0805 SERIES

BDC P/N	L (nH)	Tolerance	Q min	L. Q Test Freq. (MHZ)	Q(Typical)-F(MHz)			SRF		DCR max (Ω)	Ir max (mA)
					Q 100	Q 800	Q1800	min (MHz)	Typ. (MHz)		
FHI08051N5	1.5	±0.3nH	10	100	21	61	100	6000	>6000	0.1	500
FHI08051N8	1.8		10	100	20	55	92	6000	>6000	0.1	500
FHI08052N2	2.2		10	100	20	53	90	6000	>6000	0.1	500
FHI08052N7	2.7		12	100	18	56	92	6000	>6000	0.1	500
FHI08053N3	3.3		12	100	18	54	83	6000	>6000	0.13	500
FHI08053N9	3.9		12	100	18	54	90	6000	>6000	0.15	500
FHI08054N7	4.7		12	100	18	55	68	5500	>6000	0.2	500
FHI08055N6	5.6	±0.5nH	15	100	18	60	68	4500	5800	0.23	500
FHI08056N8	6.8		15	100	18	63	68	3500	5000	0.25	500
FHI08058N2	8.2		15	100	20	63	70	3000	4000	0.28	500
FHI080510N	10	±5% or ±10%	15	100	21	60	70	2800	3800	0.3	500
FHI08012N	12		15	100	20	60	70	2600	3800	0.35	500
FHI080515N	15		15	100	20	63	50	2500	3600	0.4	500
FHI080518N	18		15	100	22	63	46	2200	3000	0.45	300
FHI080522N	22		18	100	19	60	29	2000	3000	0.5	300
FHI080527N	27		18	100	19	58	18	1700	2400	0.55	300
FHI080533N	33		18	100	19	55	10	1500	2100	0.6	300
FHI080539N	39		18	100	19	47	6	1300	1900	0.65	300
FHI080547N	47		18	100	23	43	-	1000	1600	0.7	300
FHI080556N	56		18	100	19	39	-	900	1500	0.75	300
FHI080568N	68		18	100	19	30	-	900	1500	0.8	300
FHI080582N	82		18	100	19	-	-	800	1400	0.9	300
FHI0805R10	100		18	100	19	-	-	800	1300	0.9	300
FHI0805R12	120		13	50	19	-	-	700	1200	0.95	300
FHI0805R15	150		13	50	19	-	-	700	1100	1.2	300
FHI0805R18	180		13	50	19	-	-	500	800	1.3	300
FHI0805R22	220		12	50	20	-	-	400	700	1.5	300
FHI0805R27	270		12	50	20	-	-	400	600	1.8	300
FHI0805R33	330		12	50	16	-	-	300	360	2.5	300
FHI0805R39	390		12	50	16	-	-	300	420	2	300
FHI0805R47	470		12	50	16	-	-	200	270	2	300
FHI0805R56	560		12	50	16	-	-	200	220	2	300

□Please specify the inductance tolerance: S: ±0.3nH, D: ±0.5nH, G: ±2%, J: ±5% K:10%

## FHI 0805 SERIES ELECTRICAL CHARACTERISTICS

