

## FEATURES

HFI chip inductors are Jaro Component's line of high frequency ceramic chip inductors. We have developed highly reliable and versatile chip inductors that will meet your high frequency design requirements.

### High Frequency Range

HFI chip inductors have a ceramic material construction that extends the effective frequency range to 10 GHz.

### Multiple Size Availability

HFI chip inductors are available in three compact sizes: 100505, 160808 and 201209.

### High Q characteristics

H-series HFI chip inductors exhibit higher Q at high frequency.

## APPLICATIONS

HFI chip inductors can be used in a variety of electronics including:

- Cellular Phones
- Pager
- High-Speed Communication Devices
- WLAN and RF module

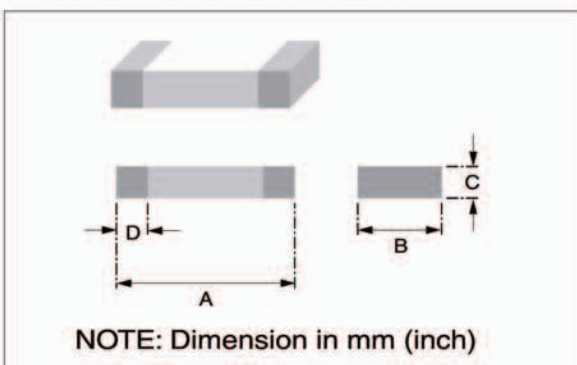
## PRODUCT IDENTIFICATION

①      ②      ③      ④      ⑤  
 HFI - 160808 - 1N2    S   □ □

- ① Product Code
- ② Dimensions (in mm)
- ③ Inductance Code
- ④ Tolerance Code
- ⑤ Pattern Code

Code	Tolerance
J	±5%
K	±10%
S	±0.3nH

## PRODUCT DIMENSIONS



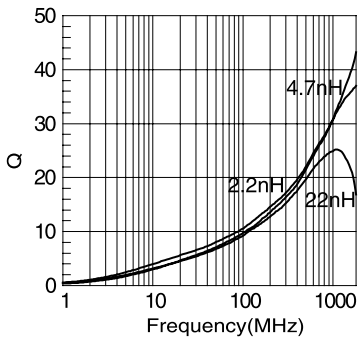
PRODUCT NO.	A	B	C	D
HFI-201209 (0805)	2.0±0.20 (0.079±0.008)	1.2±0.20 (0.047±0.008)	0.9±0.20 (0.035±0.008)	0.5±0.30 (0.020±0.012)
HFI-160808 (0603)	1.6±0.15 (0.063±0.006)	0.8±0.15 (0.031±0.006)	0.8±0.15 (0.031±0.006)	0.3±0.20 (0.012±0.008)
HFI-100505 (0402)	1.0±0.10 (0.039±0.004)	0.5±0.10 (0.020±0.004)	0.5±0.10 (0.020±0.004)	0.25±0.10 (0.010±0.004)

### ■ PRODUCT SPECIFICATIONS

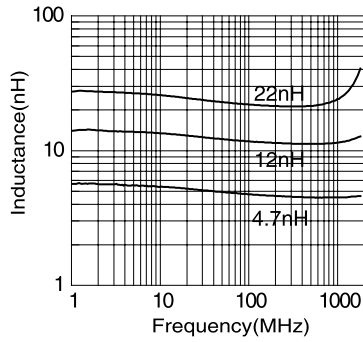
PART NUMBER	INDUCTANCE (nH) AT 100 MHz	Q Min.	Q Typical	S.R.F.(MHz) Min.	R <sub>DC</sub> (Ω) Max.	I <sub>DC</sub> (mA) Max.				
		100MHz	800 MHz							
HFI-100505-1N0S	1.0 ± 0.3	8	34	10000	0.12	300				
HFI-100505-1N2S	1.2 ± 0.3									
HFI-100505-1N5S	1.5 ± 0.3									
HFI-100505-1N8S	1.8 ± 0.3									
HFI-100505-2N2S	2.2 ± 0.3		29	6000	0.16					
HFI-100505-2N7S	2.7 ± 0.3									
HFI-100505-3N3S	3.3 ± 0.3		28	4000	0.19					
HFI-100505-3N9S	3.9 ± 0.3									
HFI-100505-4N7S	4.7 ± 0.3									
HFI-100505-5N6S	5.6 ± 0.3									
HFI-100505-6N8	6.8									
HFI-100505-8N2	8.2									
HFI-100505-10N	10	8	30	3200	0.42	250				
HFI-100505-12N	12									
HFI-100505-15N	15									
HFI-100505-18N	18									
HFI-100505-22N	22						1900	0.80	200	
HFI-100505-27N	27									
HFI-100505-33N	33									
HFI-100505-39N	39									
HFI-100505-47N	47						23	1000	1.30	150
HFI-100505-56N	56									
HFI-100505-68N	68									
HFI-100505-82N	82									
HFI-100505-R10	100	8	10	600	1.60	100				
HFI-100505-R12	120									

**TYPICAL ELECTRICAL CHARACTERISTIC CURVES**

**Q vs. Freq. Characteristics**



**Inductance vs. Freq. Characteristics**

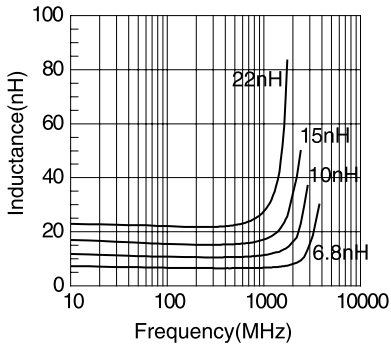


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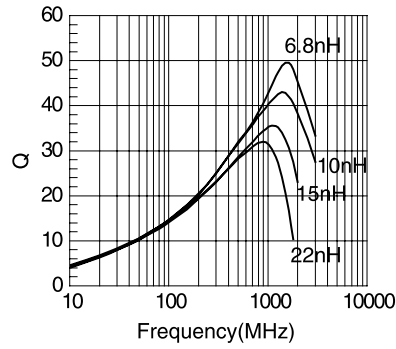
PART NUMBER	INDUCTANCE (nH) AT 100 MHz	Q Min.	Q Typical	S.R.F.(MHz) Min.	R <sub>DC</sub> (Ω) Max.	I <sub>DC</sub> (mA) Max.		
		100MHz *50MHz	800 MHz					
HFI-160808-1N2S	1.2 ± 0.3	8	70	10000	0.05	300		
HFI-160808-1N5S	1.5 ± 0.3		47	6000	0.10			
HFI-160808-1N8S	1.8 ± 0.3		30					
HFI-160808-2N2S	2.2 ± 0.3		37					
HFI-160808-2N7S	2.7 ± 0.3		41					
HFI-160808-3N3S	3.3 ± 0.3		10				42	0.12
HFI-160808-3N9S	3.9 ± 0.3							0.14
HFI-160808-4N7S	4.7 ± 0.3			0.16				
HFI-160808-5N6S	5.6 ± 0.3	4000		0.18				
HFI-160808-6N8	6.8	43		0.22				
HFI-160808-8N2	8.2	44		3500	0.24			
HFI-160808-10N	10	43		3400	0.26			
HFI-160808-12N	12	45		2600	0.28			
HFI-160808-15N	15	46	2300	0.32				
HFI-160808-18N	18	44	2000	0.35				
HFI-160808-22N	22	45	1600	0.40				
HFI-160808-27N	27	46	1400	0.45				
HFI-160808-33N	33	12	44	1200	0.55			
HFI-160808-39N	39			1100	0.60			
HFI-160808-47N	47			35	0.70			
HFI-160808-56N	56			34	900	0.75		
HFI-160808-68N	68			30	700	0.85		
HFI-160808-82N	82			27	600	0.95		
HFI-160808-R10	100			16	600	1.00		
HFI-160808-R12	120 at 50MHz			*8	-	500	1.20	
HFI-160808-R15	150 at 50MHz	-	400		1.30			
HFI-160808-R18	180 at 50MHz	-						
HFI-160808-R22	220 at 50MHz	-			1.50			

**TYPICAL ELECTRICAL CHARACTERISTIC CURVES**

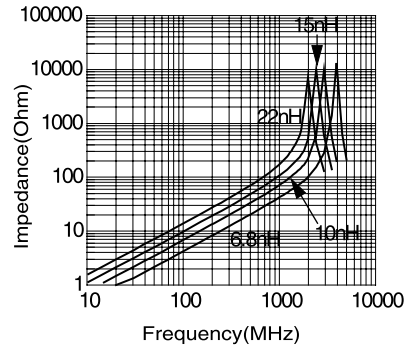
**Inductance vs. Freq. Characteristics**



**Q vs. Freq. Characteristics**



**Impedance vs. Freq. Characteristics**

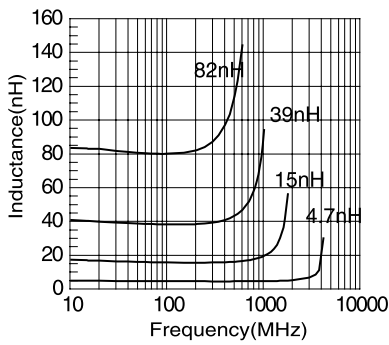


### ■ PRODUCT SPECIFICATIONS

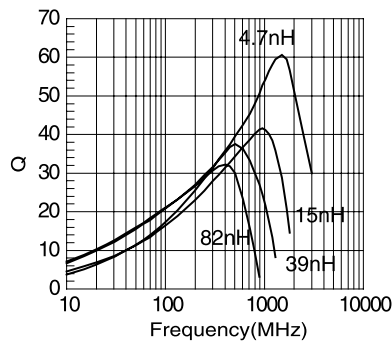
PART NUMBER	INDUCTANCE (nH) AT 100 MHz	Q Min.		S.R.F.(MHz) Min.	R <sub>DC</sub> (Ω) Max.	I <sub>DC</sub> (mA) Max.
		100MHz *50MHz	800 MHz			
HFI-201209-1N5S	1.5 ± 0.3	10	61	4000	0.10	300
HFI-201209-1N8S	1.8 ± 0.3		55			
HFI-201209-2N2S	2.2 ± 0.3		53			
HFI-201209-2N7S	2.7 ± 0.3	12	56	3500	0.13	
HFI-201209-3N3S	3.3 ± 0.3		47		0.15	
HFI-201209-3N9S	3.9 ± 0.3		54		0.20	
HFI-201209-4N7S	4.7 ± 0.3	15	55	3200	0.23	
HFI-201209-5N6S	5.6 ± 0.3		60	0.25		
HFI-201209-6N8	6.8		63	0.28		
HFI-201209-8N2	8.2	18	2400	2100	0.30	
HFI-201209-10N	10		60	0.35		
HFI-201209-12N	12		63	0.40		
HFI-201209-15N	15	15	1600	1900	0.45	
HFI-201209-18N	18		1500	0.50		
HFI-201209-22N	22		1400	0.55		
HFI-201209-27N	27	18	58	1300	0.60	
HFI-201209-33N	33		55	0.65		
HFI-201209-39N	39		47	0.70		
HFI-201209-47N	47	15	43	900	0.75	
HFI-201209-56N	56		39	0.80		
HFI-201209-68N	68		30	0.90		
HFI-201209-82N	82	*13	-	600	0.95	
HFI-201209-R10	100		-	1.00		
HFI-201209-R12	120 at 50MHz		-	1.10		
HFI-201209-R15	150 at 50MHz	*12	-	400	1.20	
HFI-201209-R18	180 at 50MHz		-	1.30		
HFI-201209-R22	220 at 50MHz		-	1.40		
HFI-201209-R27	270 at 50MHz	*10	-	350	1.50	
HFI-201209-R33	330 at 50MHz		-	250		
HFI-201209-R39	390 at 50MHz		-	200		
HFI-201209-R47	470 at 50MHz		-			

**TYPICAL ELECTRICAL CHARACTERISTIC CURVES**

**Inductance vs. Freq. Characteristics**



**Q vs. Freq. Characteristics**



**Impedance vs. Freq. Characteristics**

