

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

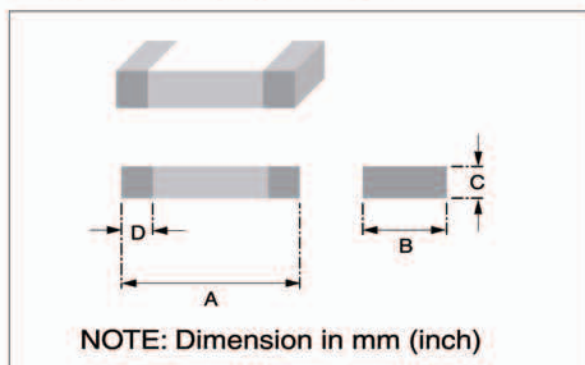
PRODUCT IDENTIFICATION

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

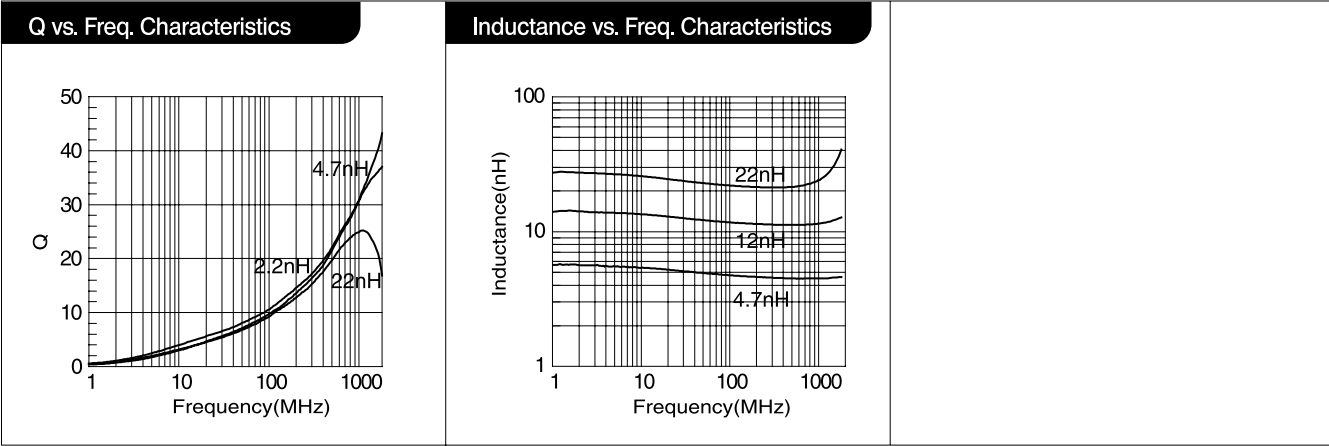


PRODUCT NO.	A	B	C	D
HFI-201209 (0805)	2.0±0.20 (0.079±0.008)	1.2±0.20 (0.047±0.008)	0.9±0.20 (0.035±0.008)	0.5±0.30 (0.020±0.012)
HFI-160808 (0603)	1.6±0.15 (0.063±0.006)	0.8±0.15 (0.031±0.006)	0.8±0.15 (0.031±0.006)	0.3±0.20 (0.012±0.008)
HFI-100505 (0402)	1.0±0.10 (0.039±0.004)	0.5±0.10 (0.020±0.004)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

■ PRODUCT SPECIFICATIONS

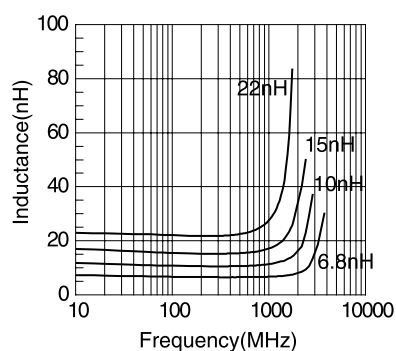
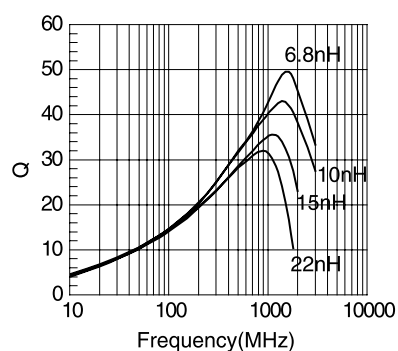
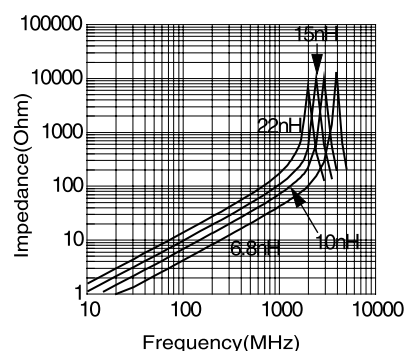
PART NUMBER	INDUCTANCE (nH) AT 100 MHz	Q Min.	Q Typical	S.R.F.(MHz) Min.	R _{DC} (Ω) Max.	I _{DC} (mA) Max.			
		100MHz	800 MHz						
HFI-100505-1N0S	1.0±0.3	8	34	10000	0.12	300			
HFI-100505-1N2S	1.2±0.3				0.13				
HFI-100505-1N5S	1.5±0.3						0.14		
HFI-100505-1N8S	1.8±0.3		6000	0.16					
HFI-100505-2N2S	2.2±0.3			29	0.17				
HFI-100505-2N7S	2.7±0.3				0.19				
HFI-100505-3N3S	3.3±0.3		28				4000	0.22	
HFI-100505-3N9S	3.9±0.3			0.24					
HFI-100505-4N7S	4.7±0.3			0.27					
HFI-100505-5N6S	5.6±0.3			27	3900		0.32		
HFI-100505-6N8	6.8		28			3600	0.37		
HFI-100505-8N2	8.2						30	3200	0.42
HFI-100505-10N	10								2700
HFI-100505-12N	12			2300	0.55				
HFI-100505-15N	15		2100		0.65				
HFI-100505-18N	18				1900	0.80			
HFI-100505-22N	22					1600	0.90		
HFI-100505-27N	27			1300			1.00		
HFI-100505-33N	33		1200				1.20		
HFI-100505-39N	39				1000		1.30		
HFI-100505-47N	47	750				1.40			
HFI-100505-56N	56			150					
HFI-100505-68N	68		8			600	1.60	100	
HFI-100505-82N	82			10					
HFI-100505-R10	100	8							
HFI-100505-R12	120								

■ TYPICAL ELECTRICAL CHARACTERISTIC CURVES



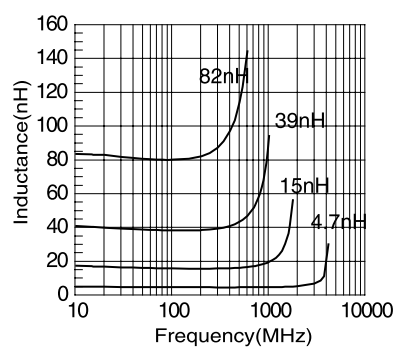
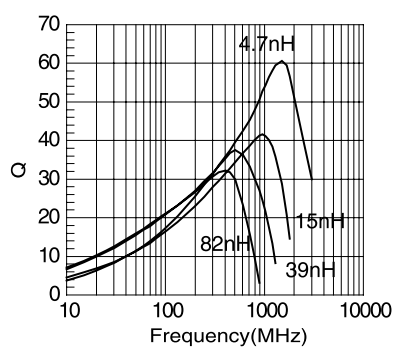
■ PRODUCT SPECIFICATIONS

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

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.	Q Typical	S.R.F.(MHz) Min.	R _{DC} (Ω) Max.	I _{DC} (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		0.13		
HFI-201209-3N3S	3.3 ± 0.3		47				
HFI-201209-3N9S	3.9 ± 0.3		54	0.15			
HFI-201209-4N7S	4.7 ± 0.3	15	55	3500	0.20		
HFI-201209-5N6S	5.6 ± 0.3		60	3200	0.23		
HFI-201209-6N8	6.8		63	2800	0.25		
HFI-201209-8N2	8.2			2400	0.28		
HFI-201209-10N	10		60	2100	0.30		
HFI-201209-12N	12			1900	0.35		
HFI-201209-15N	15		63	1600	0.40		
HFI-201209-18N	18			1500	0.45		
HFI-201209-22N	22	18	60	1400	0.50		
HFI-201209-27N	27		58	1300	0.55		
HFI-201209-33N	33		55	1200	0.60		
HFI-201209-39N	39		47	1000	0.65		
HFI-201209-47N	47		43	900	0.70		
HFI-201209-56N	56		39	800	0.75		
HFI-201209-68N	68		30	700	0.80		
HFI-201209-82N	82		-	600	0.90		
HFI-201209-R10	100		-				
HFI-201209-R12	120 at 50MHz	*13	-	500	0.95		
HFI-201209-R15	150 at 50MHz		-		1.00		
HFI-201209-R18	180 at 50MHz		-	400	1.10		
HFI-201209-R22	220 at 50MHz	*12	-	350	1.20		
HFI-201209-R27	270 at 50MHz		-	300	1.30		
HFI-201209-R33	330 at 50MHz		-	250	1.40		
HFI-201209-R39	390 at 50MHz	*10	-		1.30		
HFI-201209-R47	470 at 50MHz		-	200	1.50		

TYPICAL ELECTRICAL CHARACTERISTIC CURVES**Inductance vs. Freq. Characteristics****Q vs. Freq. Characteristics****Impedance vs. Freq. Characteristics**