

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

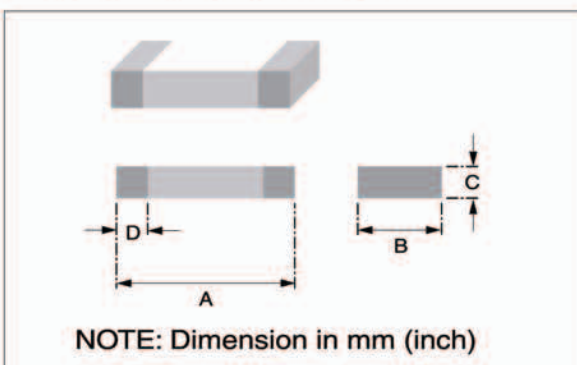
PRODUCT IDENTIFICATION

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



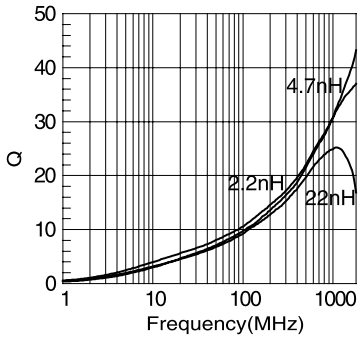
PRODUCT NO.	A	B	C	D
HFI-201209 (0805)	2.0±0.20 (0.079±0.008)	1.2±0.20 (0.047±0.008)	0.9±0.20 (0.035±0.008)	0.5±0.30 (0.020±0.012)
HFI-160808 (0603)	1.6±0.15 (0.063±0.006)	0.8±0.15 (0.031±0.006)	0.8±0.15 (0.031±0.006)	0.3±0.20 (0.012±0.008)
HFI-100505 (0402)	1.0±0.10 (0.039±0.004)	0.5±0.10 (0.020±0.004)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

■ PRODUCT SPECIFICATIONS

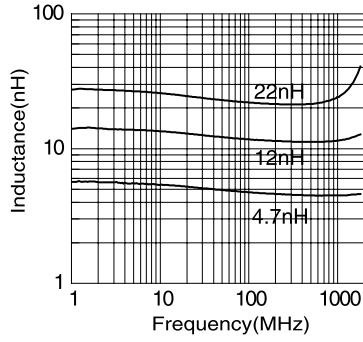
PART NUMBER	INDUCTANCE (nH) AT 100 MHz	Q Min.	Q Typical	S.R.F.(MHz) Min.	R _{DC} (Ω) Max.	I _{DC} (mA) Max.	
		100MHz	800 MHz				
HFI-100505-1N0S	1.0 ± 0.3	8	34	10000	0.12	300	
HFI-100505-1N2S	1.2 ± 0.3						
HFI-100505-1N5S	1.5 ± 0.3						
HFI-100505-1N8S	1.8 ± 0.3						
HFI-100505-2N2S	2.2 ± 0.3		29	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	8	27	3900	0.32	250	
HFI-100505-8N2	8.2		28	3600	0.37		
HFI-100505-10N	10		30	3200	0.42		
HFI-100505-12N	12		31	2700	0.50		
HFI-100505-15N	15		30	2300	0.55		
HFI-100505-18N	18			2100	0.65		
HFI-100505-22N	22			1900	0.80		
HFI-100505-27N	27			1600	0.90		
HFI-100505-33N	33		25	1300	1.00		200
HFI-100505-39N	39						
HFI-100505-47N	47						
HFI-100505-56N	56						
HFI-100505-68N	68	21	750	1.40	150		
HFI-100505-82N	82						
HFI-100505-R10	100						
HFI-100505-R12	120						
HFI-100505-R10	100	16	10	600	1.60	100	
HFI-100505-R12	120						

TYPICAL ELECTRICAL CHARACTERISTIC CURVES

Q vs. Freq. Characteristics



Inductance vs. Freq. Characteristics

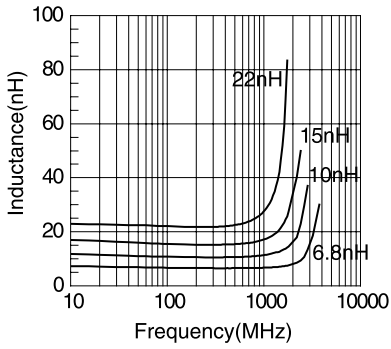


■ PRODUCT SPECIFICATIONS

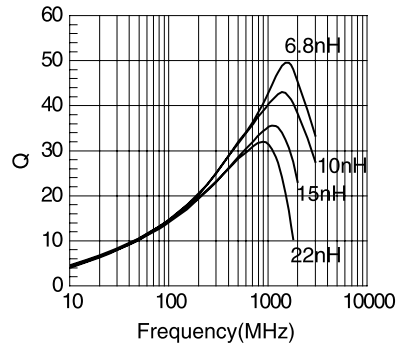
PART NUMBER	INDUCTANCE (nH) AT 100 MHz	Q Min.	Q Typical	S.R.F.(MHz) Min.	R _{DC} (Ω) Max.	I _{DC} (mA) Max.
		100MHz *50MHz	800 MHz			
HFI-160808-1N2S	1.2 ± 0.3	8	70	10000	0.05	300
HFI-160808-1N5S	1.5 ± 0.3		47			
HFI-160808-1N8S	1.8 ± 0.3		30			
HFI-160808-2N2S	2.2 ± 0.3		37			
HFI-160808-2N7S	2.7 ±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

■ TYPICAL ELECTRICAL CHARACTERISTIC CURVES

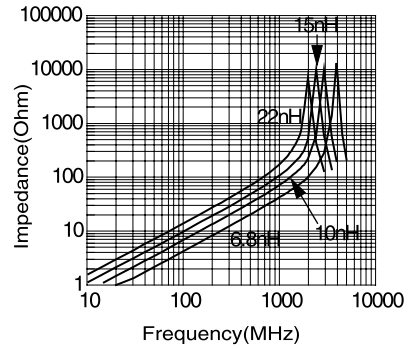
Inductance vs. Freq. Characteristics



Q vs. Freq. Characteristics



Impedance vs. Freq. Characteristics

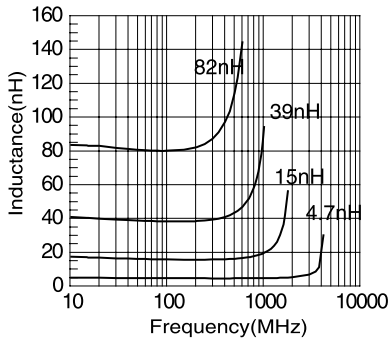


■ PRODUCT SPECIFICATIONS

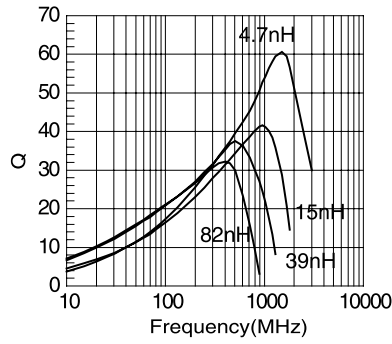
PART NUMBER	INDUCTANCE (nH) AT 100 MHz	Q Min.		S.R.F.(MHz) Min.	R _{DC} (Ω) Max.	I _{DC} (mA) Max.
		100MHz *50MHz	800 MHz			
HFI-201209-1N5S	1.5 ± 0.3	10	61	4000	0.10	300
HFI-201209-1N8S	1.8 ± 0.3		55			
HFI-201209-2N2S	2.2 ± 0.3		53			
HFI-201209-2N7S	2.7 ± 0.3	12	56	3500	0.13	
HFI-201209-3N3S	3.3 ± 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	0.30	
HFI-201209-10N	10		60	0.35		
HFI-201209-12N	12		63	0.40		
HFI-201209-15N	15	15	-	2100	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	12	43	900	0.75	
HFI-201209-56N	56		39	0.80		
HFI-201209-68N	68		30	0.90		
HFI-201209-82N	82	*13	-	700	0.95	
HFI-201209-R10	100		-	600	1.00	
HFI-201209-R12	120 at 50MHz		-	500	1.10	
HFI-201209-R15	150 at 50MHz	*12	-	400	1.20	
HFI-201209-R18	180 at 50MHz		-	350	1.30	
HFI-201209-R22	220 at 50MHz		-	300	1.40	
HFI-201209-R27	270 at 50MHz	*10	-	250	1.30	
HFI-201209-R33	330 at 50MHz		-	200	1.50	
HFI-201209-R39	390 at 50MHz		-			
HFI-201209-R47	470 at 50MHz		-			

TYPICAL ELECTRICAL CHARACTERISTIC CURVES

Inductance vs. Freq. Characteristics



Q vs. Freq. Characteristics



Impedance vs. Freq. Characteristics

