

■ FEATURES

- Supports operating frequency bands of up to 10GHz.
- Provides high Q characteristics.
- Monolithic structure for high reliability.
- Excellent solderability and high heat resistance for either flow or reflow soldering.



■ APPLICATIONS

- Mobile phones.
- Portable phones.
- Cordless Phones.
- Pager and personal handy-phone systems (PHS)

■ ORDERING CODE

SHI	-	2012	-	H	-	47N	-	J	-	T
[1]		[2]		[3]		[4]		[5]		[6]

[1] **Product Type:** SHI

[2] **Size Code:** See Chip Size Table

[3] **Material Code:** H

[4] **Inductance:** E.g. 47N = 0.0047uH; R22 = 0.22uH; 3R9 = 3.9uH

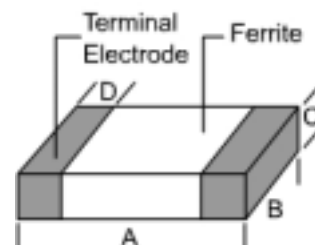
[5] **Tolerance:** S±0.3nH; D±0.5nH; J±5% ; K-±10%; M±20%

[6] **Packing:** T-Tape & Reel ; B-Bulk

■ DIMENSIONS

Unit: mm

Type	A	B	C	D
1005 (0402)	1.0 ± 0.15	0.5 ± 0.15	0.5 ± 0.15	0.25 ± 0.1
1608 (0603)	1.6 ± 0.15	0.8 ± 0.15	0.8 ± 0.15	0.3 ± 0.2
2012 (0805)	2.0 ± 0.20	1.2 ± 0.20	0.8 ± 0.2	0.4 ± 0.2



SHI Series Type 1005(0402)

Part Number	Inductance (nH) 100MHz	Q Min. 100MHz	L,Q Test Frequency (MHz)	Q Typical Freq. (MHz)		SRF (MHz) min.	DC Resistance (Ω) max.	Rated Current (mA) max.
				100	1000			
SHI100505H1N0□○	1.0	8	100	11	39	>6000	0.05	400
SHI100505H1N2□○	1.2	8	100	11	39	>6000	0.06	400
SHI100505H1N5□○	1.5	8	100	11	39	>6000	0.07	400
SHI100505H1N8□○	1.8	8	100	11	35	6000	0.08	400
SHI100505H2N2□○	2.2	8	100	10	35	6000	0.09	400
SHI100505H2N7□○	2.7	8	100	10	34	6000	0.10	400
SHI100505H3N3□○	3.3	8	100	10	34	6000	0.12	400
SHI100505H3N9□○	3.9	8	100	10	33	5200	0.15	360
SHI100505H4N7□○	4.7	8	100	10	33	4800	0.17	360
SHI100505H5N6□○	5.6	8	100	10	33	4600	0.19	340
SHI100505H6N8□○	6.8	8	100	10	33	4000	0.30	300
SHI100505H8N2□○	8.2	8	100	10	33	3600	0.35	300
SHI100505H10N□○	10	8	100	10	32	3200	0.41	300
SHI100505H12N□○	12	8	100	11	34	2800	0.45	300
SHI100505H15N□○	15	8	100	11	33	2500	0.55	300
SHI100505H18N□○	18	8	100	11	32	2200	0.65	300
SHI100505H22N□○	22	8	100	11	31	2000	0.80	300
SHI100505H27N□○	27	8	100	11	29	1600	0.90	300
SHI100505H33N□○	33	8	100	11	25	1300	1.00	200
SHI100505H39N□○	39	8	100	11	23	1200	1.20	180
SHI100505H47N□○	47	8	100	11	21	1000	1.30	180
SHI100505H56N□○	56	8	100	11	19	900	1.40	180
SHI100505H68N□○	68	8	100	11	16	750	1.40	150
SHI100505H82N□○	82	8	100	10	10	600	1.60	150
SHI100505HR10□○	100	8	100	10	-	600	1.60	100
SHI100505HR12□○	120	8	100	10	-	600	1.60	100

□ Please specify the inductance tolerance: S \pm 0.3nH; D \pm 0.5nH; J \pm 5%; K \pm 10%; M \pm 20%

○ Mean package style: T – Tape & Reel; B – Bulk

Specific requirement can be made upon request

SHI Series Type 1608(0603)

Part Number	Inductance (nH) 100MHz	Q Min. 100MHz	L,Q Test Frequency (MHz)	Q Typical Freq. (MHz)		SRF (MHz) min.	DC Resistance (Ω) max.	Rated Current (mA) max.
				100	1000			
SHI160808H1N0□○	1.0	8	100	14	90	>6000	0.05	500
SHI160808H1N2□○	1.2	8	100	14	90	>6000	0.05	500
SHI160808H1N5□○	1.5	8	100	14	68	>6000	0.10	500
SHI160808H1N8□○	1.8	8	100	14	61	>6000	0.10	500
SHI160808H2N2□○	2.2	8	100	14	60	>6000	0.10	500
SHI160808H2N7□○	2.7	10	100	13	47	6000	0.10	500
SHI160808H3N3□○	3.3	10	100	14	47	6000	0.12	500
SHI160808H3N9□○	3.9	10	100	13	47	6000	0.14	500
SHI160808H4N7□○	4.7	10	100	13	47	4800	0.16	500
SHI160808H5N6□○	5.6	10	100	14	47	4600	0.18	500
SHI160808H6N8□○	6.8	10	100	14	47	4200	0.22	500
SHI160808H8N2□○	8.2	10	100	14	48	3600	0.24	500
SHI160808H10N□○	10	12	100	14	47	3400	0.26	300
SHI160808H12N□○	12	12	100	14	49	2800	0.28	300
SHI160808H15N□○	15	12	100	15	51	2600	0.32	300
SHI160808H18N□○	18	12	100	15	48	2400	0.35	300
SHI160808H22N□○	22	12	100	16	47	2000	0.40	300
SHI160808H27N□○	27	12	100	16	46	1900	0.45	300
SHI160808H33N□○	33	12	100	17	47	1600	0.55	300
SHI160808H39N□○	39	12	100	18	44	1400	0.60	300
SHI160808H47N□○	47	12	100	17	34	1200	0.70	250
SHI160808H56N□○	56	12	100	17	31	1000	0.75	250
SHI160808H68N□○	68	12	100	18	22	900	0.85	250
SHI160808H82N□○	82	12	100	18	-	800	0.95	250
SHI160808HR10□○	100	12	100	18	-	700	1.00	250
SHI160808HR12□○	120	8	50	16	-	600	1.20	250
SHI160808HR15□○	150	8	50	13	-	500	1.20	250
SHI160808HR18□○	180	8	50	13	-	400	1.30	250
SHI160808HR22□○	220	8	50	12	-	400	1.50	250

□ Please specify the inductance tolerance: S±0.3nH; D±0.5nH; J±5%; K±10%; M±20%

○ Please specify the package style: T – Tape & Reel; B – Bulk

Specific requirement can be made upon request

SHI Series Type 2012(0805)

Part Number	Inductance (nH) 100MHz	Q Min. 100MHz	L,Q Test Frequency (MHz)	Q Typical Freq. (MHz)		SRF (MHz) min.	DC Resistance (Ω) max.	Rated Current (mA) max.
				100	1000			
SHI201209H1N5□○	1.5	10	100	21	85	6000	0.10	300
SHI201209H1N8□○	1.8	10	100	18	85	6000	0.10	300
SHI201209H2N2□○	2.2	10	100	18	85	6000	0.10	300
SHI201209H2N7□○	2.7	12	100	19	76	6000	0.10	300
SHI201209H3N3□○	3.3	12	100	16	85	6000	0.13	300
SHI201209H3N9□○	3.9	12	100	18	85	5400	0.15	300
SHI201209H4N7□○	4.7	12	100	18	85	4500	0.20	300
SHI201209H5N6□○	5.6	15	100	20	78	4000	0.23	300
SHI201209H6N8□○	6.8	15	100	20	69	3800	0.25	300
SHI201209H8N2□○	8.2	15	100	21	70	3000	0.28	300
SHI201209H10N□○	10	15	100	20	71	2500	0.30	300
SHI201209H12N□○	12	15	100	21	67	2450	0.35	300
SHI201209H15N□○	15	15	100	22	72	2000	0.40	300
SHI201209H18N□○	18	15	100	24	72	1750	0.45	300
SHI201209H22N□○	22	18	100	23	69	1700	0.50	300
SHI201209H27N□○	27	18	100	23	68	1550	0.55	300
SHI201209H33N□○	33	18	100	24	60	1350	0.60	300
SHI201209H39N□○	39	18	100	23	47	1300	0.65	300
SHI201209H47N□○	47	18	100	23	41	1200	0.70	300
SHI201209H56N□○	56	18	100	23	38	1150	0.75	300
SHI201209H68N□○	68	18	100	25	-	1000	0.85	300
SHI201209H82N□○	82	18	100	24	-	850	0.90	300
SHI201209HR10□○	100	18	100	23	-	600	1.00	300
SHI201209HR12□○	120	13	50	22	-	500	1.50	300
SHI201209HR15□○	150	13	50	22	-	500	1.50	300
SHI201209HR18□○	180	13	50	23	-	400	2.10	300
SHI201209HR22□○	220	12	50	20	-	350	2.10	300
SHI201209HR27□○	270	12	50	20	-	300	3.00	200
SHI201209HR33□○	330	12	50	22	-	250	3.00	200
SHI201209HR39□○	390	10	50	19	-	250	2.50	200
SHI201209HR47□○	470	10	50	19	-	200	2.50	200

□ Please specify the inductance tolerance: S±0.3nH; D±0.5nH; J±5%; K±10%; M±20%

○ Please specify the package style: T – Tape & Reel; B – Bulk

Specific requirement can be made upon request