

# ◆ Multilayer Chip Ferrite Inductor SRFI Series



## FEATURES

- ◆ Compact size and light weight.
- ◆ Excellent solderability and heat resistance for either flow or reflow soldering.
- ◆ No cross coupling between inductors due to magnetic shield.

## APPLICATIONS

- ◆ Resonance circuit, traps, filter circuits.
- ◆ RF choke in telecommunications equipment, cordless phones, radio equipment.

## PRODUCT IDENTIFICATION

SRFI 0805 - 100 K  
a b c d

a: Series name

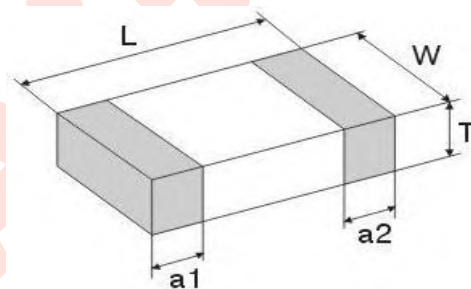
b: Product dimensions

c: Inductance Value

(1R0:1.0uH; 100: 10uH; 101:100uH)

d: Inductance Tolerance (J:5%; K:10% ; M:20%)

## SHAPES AND DIMENSIONS



Type	Dimensions (mm) [inch]			
	L	W	T	a1 a2
0402 [1005]	1.00±0.15 [0.04±0.006]	0.50±0.15 [0.02±0.006]	0.50±0.15 [0.02±0.006]	0.25±0.10 [0.01±0.004]
0603 [1608]	1.60±0.15 [0.063±0.006]	0.80±0.15 [0.031±0.006]	0.80±0.15 [0.031±0.006]	0.30±0.20 [0.012±0.008]
0805 [2012]	2.00±0.20 [0.079±0.008]	1.25±0.20 [0.049±0.008]	0.85±0.20 [0.033±0.008]	0.50±0.30 [0.02±0.012]
1206 [3216]	3.20±0.20 [0.126±0.008]	1.60±0.20 [0.063±0.008]	1.10±0.30 [0.043±0.012]	0.50±0.30 [0.02±0.012]
1210 [3225]	3.20±0.20 [0.126±0.008]	2.50±0.20 [0.098±0.008]	1.25±0.20 [0.049±0.008]	0.70±0.30 [0.028±0.012]

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## ELECTRICAL CHARACTERISTICS

Part Number	L ( $\mu$ H)	Test Freq. (MHz)		Q (Min.)	DCR Max. ( $\Omega$ )	Rated Current (mA)	SRF Min.(MHz)
		L	Q				
SRFI0402-47NJ	0.047	50	50	10	0.450	25	220
SRFI0402-56NJ	0.056	50	50	10	0.450	25	220
SRFI0402-68NJ	0.068	50	50	10	0.450	25	210
SRFI0402-82NJ	0.082	50	50	10	0.450	25	200
SRFI0402-R10J	0.10	25	25	15	0.700	25	200
SRFI0402-R12J	0.12	25	25	15	0.700	25	165
SRFI0402-R15J	0.15	25	25	15	0.900	25	140
SRFI0402-R18J	0.18	25	25	15	1.100	25	120
SRFI0402-R22J	0.22	25	25	15	1.200	25	110
SRFI0402-R27J	0.27	25	25	15	1.200	25	95
SRFI0402-R33J	0.33	25	25	15	1.250	18	85
SRFI0402-R39J	0.39	25	25	15	1.500	18	70
SRFI0402-R47J	0.47	25	25	20	2.000	18	68
SRFI0402-R56J	0.56	25	25	20	2.350	18	55
SRFI0402-R68J	0.68	25	25	20	2.550	18	50
SRFI0402-R82J	0.82	25	25	20	3.150	18	45
SRFI0402-1R0J	1.0	10	10	20	0.900	15	40
SRFI0402-1R2J	1.2	10	10	20	1.200	15	35
SRFI0402-1R5K	1.5	10	10	20	1.200	15	30
SRFI0402-1R8K	1.8	10	10	20	1.450	15	30
SRFI0402-2R2K	2.2	10	10	20	1.750	10	28
SRFI0402-2R7K	2.7	10	10	20	2.000	10	22
SRFI0402-3R3K	3.3	10	10	20	2.350	10	20
SRFI0402-3R9K	3.9	10	10	20	2.550	10	18
SRFI0402-4R7K	4.7	10	10	20	3.150	10	15
SRFI0402-5R6K	5.6	4	4	20	2.350	3	13
SRFI0402-6R8K	6.8	4	4	20	2.550	3	11
SRFI0402-8R2K	8.2	4	4	20	3.150	3	10
SRFI0402-100K	10	2	2	20	3.450	2	9

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Part Number	L ( $\mu$ H)	Test Freq. (MHz)		Q (Min.)	DCR Max. ( $\Omega$ )	Rated Current (mA)	SRF Min.(MHz)
		L	Q				
SRFI0603-47NJ	0.047	50	50	15	0.200	50	600
SRFI0603-56NJ	0.056	50	50	15	0.300	50	550
SRFI0603-68NJ	0.068	50	50	15	0.300	50	500
SRFI0603-82NJ	0.082	50	50	15	0.300	50	450
SRFI0603-R10J	0.10	25	25	15	0.500	50	400
SRFI0603-R12J	0.12	25	25	15	0.500	50	350
SRFI0603-R15J	0.15	25	25	15	0.600	50	300
SRFI0603-R18J	0.18	25	25	15	0.600	50	280
SRFI0603-R22J	0.22	25	25	15	0.800	50	260
SRFI0603-R27J	0.27	25	25	15	0.800	50	255
SRFI0603-R33J	0.33	25	25	15	0.850	35	250
SRFI0603-R39J	0.39	25	25	15	1.000	35	245
SRFI0603-R47J	0.47	25	25	15	1.350	35	240
SRFI0603-R56J	0.56	25	25	15	1.550	35	205
SRFI0603-R68J	0.68	25	25	15	1.700	35	180
SRFI0603-R82J	0.82	25	25	15	2.100	35	165
SRFI0603-1R0J	1.0	10	10	35	0.600	25	125
SRFI0603-1R2J	1.2	10	10	35	0.800	25	110
SRFI0603-1R5J	1.5	10	10	35	0.800	25	105
SRFI0603-1R8J	1.8	10	10	35	0.950	25	95
SRFI0603-2R2J	2.2	10	10	35	1.150	15	90
SRFI0603-2R7J	2.7	10	10	35	1.350	15	80
SRFI0603-3R3J	3.3	10	10	35	1.550	15	70
SRFI0603-3R9J	3.9	10	10	35	1.700	15	60
SRFI0603-4R7J	4.7	10	10	35	2.100	15	50
SRFI0603-5R6J	5.6	4	4	35	1.550	5	45
SRFI0603-6R8J	6.8	4	4	35	1.700	5	40
SRFI0603-8R2J	8.2	4	4	35	2.10	4	35
SRFI0603-100K	10	2	2	35	2.550	3	33
SRFI0603-120K	12	2	2	35	2.750	3	22
SRFI0603-150K	15	1	1	20	1.700	1	20
SRFI0603-180K	18	1	1	20	1.850	1	18
SRFI0603-220K	22	1	1	20	2.100	1	15
SRFI0603-270K	27	1	1	20	2.750	1	12
SRFI0603-330K	33	1	1	20	2.950	1	10

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Part Number	L ( $\mu$ H)	Test Freq. (MHz)		Q (Min.)	DCR Max. ( $\Omega$ )	Rated Current (mA)	SRF Min.(MHz)
		L	Q				
SRFI0805-47NJ	0.047	50	50	15	0.20	300	350
SRFI0805-56NJ	0.056	50	50	15	0.20	300	350
SRFI0805-68NJ	0.068	50	50	15	0.20	300	280
SRFI0805-82NJ	0.082	50	50	15	0.20	300	255
SRFI0805-R10J	0.10	25	25	20	0.30	250	235
SRFI0805-R12J	0.12	25	25	20	0.30	250	220
SRFI0805-R15J	0.15	25	25	20	0.40	250	200
SRFI0805-R18J	0.18	25	25	20	0.40	250	185
SRFI0805-R22J	0.22	25	25	20	0.50	250	170
SRFI0805-R33J	0.33	25	25	20	0.55	250	145
SRFI0805-R39J	0.39	25	25	25	0.65	200	135
SRFI0805-R47J	0.47	25	25	25	0.65	200	125
SRFI0805-R68J	0.68	25	25	25	0.80	150	105
SRFI0805-R82J	0.82	25	25	25	1.00	150	100
SRFI0805-1R0J	1.0	10	10	45	0.40	50	75
SRFI0805-1R2J	1.2	10	10	45	0.50	50	65
SRFI0805-1R5J	1.5	10	10	45	0.50	50	60
SRFI0805-1R8J	1.8	10	10	45	0.60	50	55
SRFI0805-2R2J	2.2	10	10	45	0.65	30	50
SRFI0805-3R3J	3.3	10	10	45	0.80	30	41
SRFI0805-3R9J	3.9	10	10	50	0.90	30	38
SRFI0805-4R7J	4.7	10	10	50	1.00	30	35
SRFI0805-5R6J	5.6	4	4	50	0.90	15	32
SRFI0805-6R8J	6.8	4	4	50	1.00	15	29
SRFI0805-8R2J	8.2	4	4	50	1.10	15	26
SRFI0805-100J	10	2	2	50	1.15	15	24
SRFI0805-120J	12	2	2	50	1.25	15	22
SRFI0805-150J	15	1	1	30	0.80	5	19
SRFI0805-180J	18	1	1	30	0.90	5	18
SRFI0805-220J	22	1	1	30	1.10	5	16
SRFI0805-270J	27	1	1	25	1.15	5	14
SRFI0805-330J	33	1	1	25	1.25	5	13
SRFI0805-390J	39	1	1	25	1.50	4	13
SRFI0805-470J	47	1	1	25	1.80	4	12
SRFI0805-680J	68	1	1	25	2.20	2	10
SRFI0805-820J	82	1	1	25	2.50	2	9
SRFI0805-101J	100	1	1	25	2.50	2	8

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Part Number	L ( $\mu$ H)	Test Freq. (MHz)		Q (Min.)	DCR Max. ( $\Omega$ )	Rated Current (mA)	SRF Min.(MHz)
		L	Q				
SRFI1206-47NJ	0.047	50	50	30	0.15	300	400
SRFI1206-68NJ	0.068	50	50	30	0.25	300	330
SRFI1206-82NJ	0.082	50	50	30	0.25	300	310
SRFI1206-R10J	0.10	25	25	30	0.25	250	280
SRFI1206-R18J	0.18	25	25	30	0.30	250	220
SRFI1206-R22J	0.22	25	25	30	0.35	250	200
SRFI1206-R33J	0.33	25	25	35	0.40	250	170
SRFI1206-R47J	0.47	25	25	35	0.50	200	140
SRFI1206-R56J	0.56	25	25	35	0.55	150	130
SRFI1206-R68J	0.68	25	25	35	0.65	150	120
SRFI1206-R82J	0.82	25	25	35	0.75	150	110
SRFI1206-1R0J	1.0	10	10	50	0.40	100	90
SRFI1206-1R5J	1.5	10	10	50	0.45	50	70
SRFI1206-1R8J	1.8	10	10	50	0.50	50	66
SRFI1206-2R2J	2.2	10	10	50	0.55	50	58
SRFI1206-3R3J	3.3	10	10	50	0.60	50	49
SRFI1206-3R9J	3.9	10	10	50	0.70	50	48
SRFI1206-4R7J	4.7	10	10	50	0.70	50	41
SRFI1206-5R6J	5.6	4	4	55	0.75	25	38
SRFI1206-6R8J	6.8	4	4	55	0.75	25	34
SRFI1206-8R2J	8.2	4	4	55	0.80	25	31
SRFI1206-100J	10	2	2	55	0.80	25	28
SRFI1206-120J	12	2	2	55	0.90	15	26
SRFI1206-150J	15	1	1	40	0.80	5	23
SRFI1206-180J	18	1	1	40	0.80	5	21
SRFI1206-220J	22	1	1	40	0.90	5	19
SRFI1206-330J	33	1	1	40	1.05	5	16
SRFI1206-390J	39	1	1	40	2.00	5	12.5
SRFI1206-470J	47	1	1	40	2.00	5	11.5
SRFI1206-560J	56	1	1	40	2.50	4	10.5
SRFI1206-680J	68	1	1	40	2.50	4	10.5
SRFI1206-820J	82	1	1	40	3.00	4	10.0
SRFI1206-101J	100	1	1	30	3.00	4	9.0
SRFI1206-121J	120	1	1	30	3.50	2	7.0
SRFI1206-151J	150	1	1	30	3.80	2	6.5
SRFI1206-181J	180	1	1	30	4.00	2	6.0
SRFI1206-221J	220	1	1	30	4.00	2	5.5

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Part Number	L ( $\mu$ H)	Test Freq. (MHz)		Q (Min.)	DCR Max. ( $\Omega$ )	Rated Current (mA)	SRF Min.(MHz)
		L	Q				
SRFI1210-1R0J	1.0	10	10	50	0.20	150	90
SRFI1210-1R2J	1.2	10	10	50	0.22	150	80
SRFI1210-1R5J	1.5	10	10	50	0.26	120	70
SRFI1210-1R8J	1.8	10	10	50	0.28	100	66
SRFI1210-2R2J	2.2	10	10	50	0.31	80	58
SRFI1210-2R7J	2.7	10	10	50	0.34	70	53
SRFI1210-3R3J	3.3	10	10	50	0.39	60	49
SRFI1210-3R9J	3.9	10	10	50	0.42	50	48
SRFI1210-4R7J	4.7	10	10	50	0.55	40	41
SRFI1210-5R6J	5.6	4	4	55	0.65	30	38
SRFI1210-6R8J	6.8	4	4	55	0.69	25	34
SRFI1210-8R2J	8.2	4	4	55	0.71	20	31
SRFI1210-100J	10	2	2	55	0.72	20	28
SRFI1210-120J	12	2	2	55	0.78	18	26
SRFI1210-150J	15	1	1	40	0.80	15	23
SRFI1210-180J	18	1	1	40	0.80	10	21
SRFI1210-220J	22	1	1	40	0.90	10	19
SRFI1210-270J	27	1	1	40	0.90	10	17