



## Wire Wound Ferrite Chip Inductors- SI Series

SI series For High Q & F and Low DC Resistance

### Features

- 1.Low DC resistance, high current capacity, and high impedance characteristics.
- 2.Excellent solder heat resistance. Both flow and reflow soldering methods can be employed.



### Applications

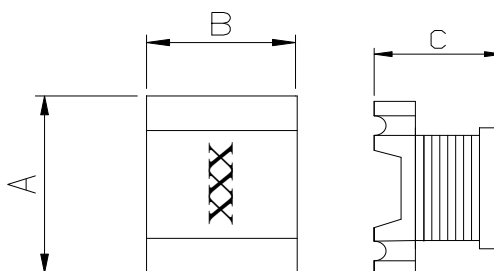
- Disk Drives and computer peripherals.
- Pagers, Cordless phone.
- DC power supply circuit

### Dimensions (mm)

### Product Identification

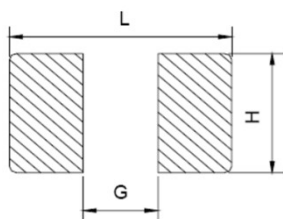
SI 43 - 1R0 K -PF

SI: SERIES NAME  
 43:Dimensions CODE  
 1R0: INDUCTANCE CODE.  
 K: TOLERANCE, J=5%  
 K=10% M=20%.  
 PF:Pb-Free



SERIES	A	B	C
SI21	2.5±0.3	2.0±0.3	1.8±0.4
SI31	3.2±0.3	1.6±0.3	2.0±0.3
SI32	3.2±0.3	2.5±0.3	2.2±0.3
SI43	4.5±0.3	3.2±0.3	2.6±0.3
SI55	5.7±0.3	5.0±0.3	4.7±0.3

### RECOMMENDER P.C.B LAYOUT



SERIES	L	H	G
SI21	2.7	2.2	0.7
SI31	3.5	2.0	0.7
SI32	3.5	2.7	0.7
SI43	4.7	3.40	1.5
SI55	6.0	5.30	2.0

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### Electrical Characteristics

Part Number	Inductance ( $\mu\text{H}$ )	Test Frequency (HZ)	DC Resistance ( $\Omega$ MAX)	Rated DC Current (mA)
SI21-R22□-PF	0.22	1MHz	0.032	350
SI21-R39□-PF	0.39	1MHz	0.042	330
SI21-1R0□-PF	1	1MHz	0.078	300
SI21-1R2□-PF	1.2	1MHz	0.09	290
SI21-1R5□-PF	1.5	1MHz	0.10	280
SI21-1R8□-PF	1.8	1MHz	0.11	270
SI21-2R2□-PF	2.2	1MHz	0.12	250
SI21-2R7□-PF	2.7	1MHz	0.20	240
SI21-3R3□-PF	3.3	1MHz	0.24	230.0
SI21-3R9□-PF	3.9	1MHz	0.28	220.0
SI21-4R7□-PF	4.7	1MHz	0.30	210
SI21-5R6□-PF	5.6	1MHz	0.34	205
SI21-6R8□-PF	6.8	1MHz	0.44	200
SI21-8R2□-PF	8.2	1MHz	0.59	195
SI21-100□-PF	10	1KHz	0.68	190
SI21-120□-PF	12	1KHz	0.77	185
SI21-150□-PF	15	1KHz	0.87	180
SI21-180□-PF	18	1KHz	1.20	175
SI21-220□-PF	22	1KHz	1.34	170
SI21-330□-PF	33	1KHz	2.10	160
SI21-470□-PF	47	1KHz	3.30	150
SI21-560□-PF	56	1KHz	3.70	145
SI21-680□-PF	68	1KHz	6.00	135
SI21-820□-PF	82	1KHz	6.90	125
SI21-101□-PF	100	1KHz	7.75	110
SI21-221□-PF	220	1KHz	13.42	90

Note:

- (1). All test data is referenced to 25°C ambient.
- (2). Operating Temperature Range-25°C to +105°C.
- (3). Inductance tested at 0.25Vrms,0.0adc.
- (4). □Tolerance of inductance±10%(K) ±20%(M)
- (5). Inductance drop<10%.At Rated DC Current.
- (6). Special inquiries besides the above comon used types can be met on your requirement

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Part Number	Inductance ( $\mu\text{H}$ )	Test Frequency (Hz)	DC Resistance ( $\Omega$ MAX)	Rated DC Current (mA)
SI31-R12□-PF	0.12	1MHz	0.112	970
SI31-R22□-PF	0.22	1MHz	0.14	850
SI31-R47□-PF	0.47	1MHz	0.21	700
SI31-1R0□-PF	1	1MHz	0.364	510
SI31-2R2□-PF	2.2	1MHz	0.533	430
SI31-4R7□-PF	4.7	1MHz	0.845	340
SI31-100□-PF	10	1KHz	1.69	230
SI31-220□-PF	22	1KHz	3.9	160
SI31-470□-PF	47	1KHz	10.4	100
SI31-101□-PF	100	1KHz	15.6	80

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- (4). □Tolerance of inductance $\pm 10\%$ (K)  $\pm 20\%$ (M)
- (5). Inductance drop $<10\%$ .At Rated DC Current.
- (6). Special inquiries besides the above common used types can be met on your requirement

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### Electrical Characteristics

Part Number	Inductance ( $\mu\text{H}$ )	Test Frequency (Hz)	DC Resistance ( $\Omega$ MAX)	Rated DC Current (mA)
SI32-1R0□-PF	1	1MHz	0.117	1000
SI32-2R2□-PF	2.2	1MHz	0.169	600
SI32-4R7□-PF	4.7	1MHz	0.26	450
SI32-100□-PF	10	1MHz	0.572	300
SI32-220□-PF	22	1MHz	0.923	250
SI32-470□-PF	47	1MHz	1.69	170
SI32-101□-PF	100	1KHz	4.55	100
SI32-221□-PF	220	1KHz	10.9	70
SI32-331□-PF	330	1KHz	13	60
SI32-391□-PF	390	1KHz	22.1	60
SI32-471□-PF	470	1KHz	24.7	60
SI32-561□-PF	560	1KHz	28.6	60

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### Electrical Characteristics

Part Number	Inductance ( $\mu\text{H}$ )	Test Frequency (Hz)	DC Resistance ( $\Omega$ MAX)	Rated DC Current (mA)
SI43-1R0□-PF	1	1MHz	0.08	1080
SI43-1R5□-PF	1.5	1MHz	0.09	1000
SI43-2R2□-PF	2.2	1MHz	0.11	900
SI43-3R3□-PF	3.3	1MHz	0.13	800
SI43-4R7□-PF	4.7	1MHz	0.15	750
SI43-6R8□-PF	6.8	1MHz	0.2	720
SI43-100□-PF	10	1KHz	0.24	650
SI43-220□-PF	22	1KHz	0.6	420
SI43-330□-PF	33	1KHz	1	310
SI43-470□-PF	47	1KHz	1.1	280
SI43-680□-PF	68	1KHz	1.7	220
SI43-101□-PF	100	1KHz	2.2	190
SI43-221□-PF	220	1KHz	4	110
SI43-331□-PF	330	1KHz	6.8	100
SI43-471□-PF	470	1KHz	8.5	90

Note:

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- (2). Operating Temperature Range-25°C to +105°C.
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Part Number	Inductance ( $\mu\text{H}$ )	Test Frequency (Hz)	DC Resistance ( $\Omega$ MAX)	Rated DC Current (mA)
SI55-0R10□-PF	0.1	1MHz	0.010	6000
SI55-0R24□-PF	0.24	1MHz	0.014	5300
SI55-0R42□-PF	0.42	1MHz	0.018	4800
SI55-1R0□-PF	1	1MHz	0.027	4000
SI55-1R5□-PF	1.5	1MHz	0.031	3700
SI55-2R2□-PF	2.2	1MHz	0.041	3200
SI55-3R3□-PF	3.3	1MHz	0.050	2900
SI55-4R7□-PF	4.7	1MHz	0.063	2700
SI55-6R8□-PF	6.8	1MHz	0.10	2000
SI55-100□-PF	10	1KHz	0.13	1700
SI55-150□-PF	15	1KHz	0.21	1400
SI55-220□-PF	22	1KHz	0.27	1200
SI55-330□-PF	33	1KHz	0.45	900
SI55-470□-PF	47	1KHz	0.63	800
SI55-680□-PF	68	1KHz	0.94	640
SI55-101□-PF	100	1KHz	1.20	560
SI55-151□-PF	150	1KHz	2.66	420
SI55-221□-PF	220	1KHz	3.36	320
SI55-331□-PF	330	1KHz	6.16	270
SI55-471□-PF	470	1KHz	7.56	240
SI55-681□-PF	680	1KHz	11.34	190
SI55-102□-PF	1000	1KHz	14.42	150
SI55-222□-PF	2200	1KHz	30.10	100

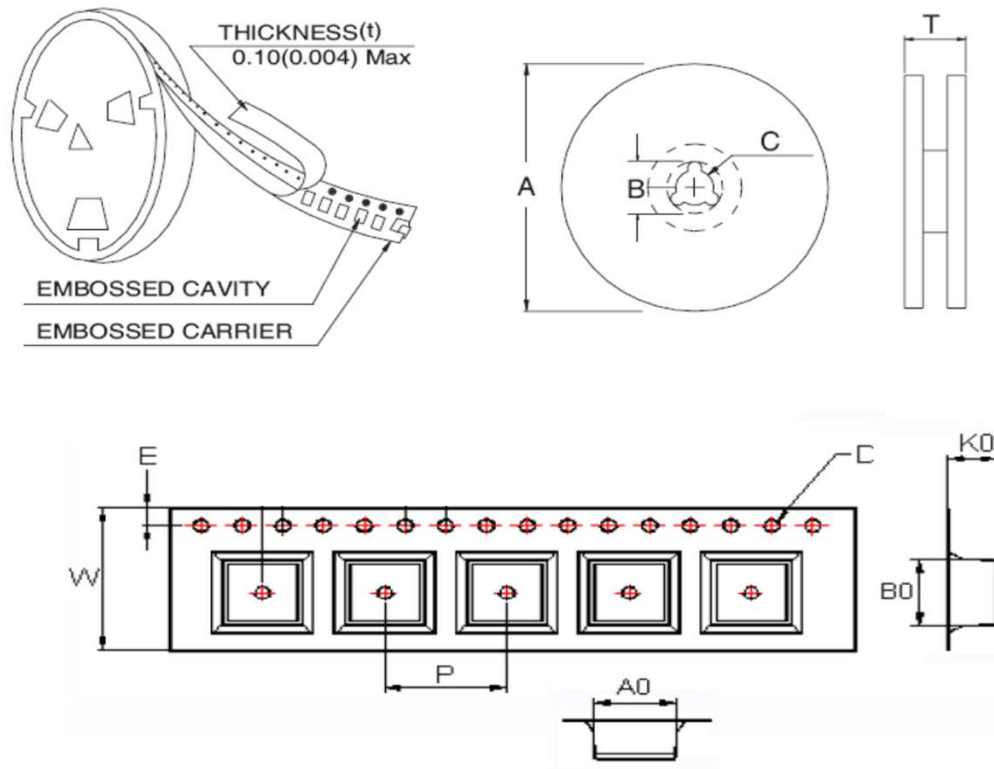
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### PACKAGING

#### 1.Configuration.



#### 2.Dimension in mm

TYPE	A	B	C	T
12mm	330	100	21±0.8	16.4
16mm	330	100	21±0.8	20.4
24mm	330	100	21±0.8	28.4
32mm	330	100	21±0.8	36.4

TYPE	Ao(mm)	Bo(mm)	Ko(mm)	W(mm)	P(mm)	PCS/REEL
SI21	2.2±0.1	2.7±0.1	2.0±0.1	12±0.3	8±0.1	3000
SI31	2.0±0.1	3.6±0.1	2.0±0.1	12±0.3	8±0.1	3000
SI32	2.9±0.1	3.6±0.1	2.5±0.1	12±0.3	8±0.1	3000
SI43	3.6±0.1	4.9±0.1	3.0±0.1	12±0.3	8±0.1	2000
SI55	5.4±0.1	6.0±0.1	5.5±0.1	16±0.3	8±0.1	1000