SUNLEI TECHNOLOGY CORP.

SMD Power chokes- SCD-F Series

SCD series Unshielded Inductors for low power loss Use

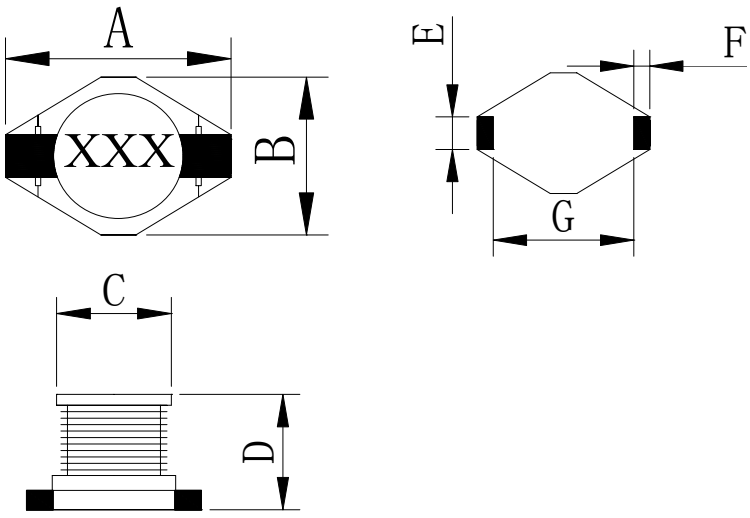
Features

Various high power inductors are superior
to be high saturation for surface mounting.

Applications

Power supply for VTR,OA equipment,
LCD television set,notebook PC,
portable communication,equipments,
DC/DC converters,etc.

Dimensions (mm)



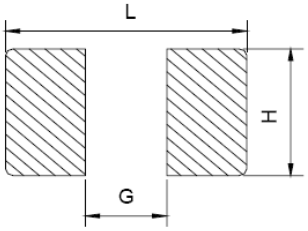
Product Identification

SCD 1608F – 100 M -PF

SCD: SERIES NAME
1608:Dimensions CODE
F: CORE TYPE
100: INDUCTANCE CODE.
M: TOLERANCE, K=10% M=20%.
PF:Pb-Free

SERIES	A	B	C	D	E	F	G
SCD1608F	6.6MAX	4.45MAX	3.94REF	2.92MAX	1.27REF	1.02REF	4.32REF
SCD3308F	13.5MAX	9.9MAX	8.38REF	3.0MAX	2.54REF	2.54REF	7.2REF
SCD3316F	13.5MAX	9.9MAX	8.38REF	5.21MAX	2.54REF	2.54REF	7.2REF
SCD3326F	13.5MAX	9.9MAX	8.7MAX	8.0MAX	2.54REF	2.54REF	7.2REF
SCD3340F	13.5MAX	9.9MAX	8.38REF	11.43MAX	2.54REF	2.54REF	7.2REF
SCD5022F	19.04MAX	15.74MAX	12.7REF	7.11MAX	2.54REF	2.54REF	12.7REF
SCD5040F	19.04MAX	15.74MAX	12.7REF	11.43MAX	2.54REF	2.54REF	12.7REF

RECOMMENDER P.C.B LAYOUT



SERIES	L	H	G
SCD1608F	6.86	3.56	4.06
SCD3308F	13.50	3.00	7.00
SCD3316F	13.50	3.00	7.00
SCD3326F	13.50	3.00	7.00
SCD3340F	13.50	3.00	7.00
SCD5022F	19.10	3.50	12.20
SCD5040F	19.10	3.50	12.20

SMD Power chokes- SCD-F Series

Electrical Characteristics

Part Number	Inductance (μH)	Test Frequency (Hz)	DC Resistance (ΩMax)	I rms (A) typ.	I sat (A) typ.
SCD1608F-1R0□-PF	1.0	100KHz	0.05	2.90	2.90
SCD1608F-1R5□-PF	1.5	100KHz	0.05	2.60	2.80
SCD1608F-2R2□-PF	2.2	100KHz	0.07	2.30	2.40
SCD1608F-3R3□-PF	3.3	100KHz	0.08	2.00	2.00
SCD1608F-4R7□-PF	4.7	100KHz	0.09	1.50	1.80
SCD1608F-6R8□-PF	6.8	100KHz	0.13	1.20	1.50
SCD1608F-100□-PF	10	100KHz	0.16	1.10	1.30
SCD1608F-150□-PF	15	100KHz	0.26	0.90	0.92
SCD1608F-220□-PF	22	100KHz	0.37	0.70	0.86
SCD1608F-270□-PF	27	100KHz	0.44	0.65	0.80
SCD1608F-330□-PF	33	100KHz	0.51	0.58	0.72
SCD1608F-470□-PF	47	100KHz	0.75	0.50	0.56
SCD1608F-680□-PF	68	100KHz	1.10	0.40	0.48
SCD1608F-101□-PF	100	100KHz	1.56	0.31	0.40
SCD1608F-151□-PF	150	100KHz	2.40	0.27	0.33
SCD1608F-221□-PF	220	100KHz	3.60	0.22	0.27
SCD1608F-331□-PF	330	100KHz	5.80	0.18	0.20
SCD1608F-471□-PF	470	100KHz	7.25	0.16	0.18
SCD1608F-681□-PF	680	100KHz	12.00	0.14	0.15
SCD1608F-102□-PF	1000	100KHz	20.20	0.10	0.12

Note:
(1). All test data is referenced to 25℃ ambient.
(2). Operating Temperature Range-55℃ to +105℃.
(3). DC current(A)that will cause an approximate△T of 40℃.
(4). DC current(A)that will cause Lo to drop approximately 10%.
(5). □Tolerance of inductance±10%(K) ±20%(M) ±30%(N)

SMD Power chokes- SCD-F Series

Electrical Characteristics

Part Number	Inductance (μH)	Test Frequency (Hz)	DC Resistance (ΩMax)	I rms (A) typ.	I sat (A) typ.
SCD3308F-100□-PF	10	100KHz	0.11	2.40	2.48
SCD3308F-150□-PF	15	100KHz	0.15	2.00	2.10
SCD3308F-220□-PF	22	100KHz	0.23	1.60	1.64
SCD3308F-330□-PF	33	100KHz	0.30	1.40	1.30
SCD3308F-470□-PF	47	100KHz	0.39	1.00	1.00
SCD3308F-680□-PF	68	100KHz	0.66	0.90	0.82
SCD3308F-101□-PF	100	100KHz	0.84	0.70	0.70
SCD3308F-151□-PF	150	100KHz	1.20	0.60	0.62
SCD3308F-221□-PF	220	100KHz	1.90	0.50	0.48
SCD3308F-331□-PF	330	100KHz	2.70	0.40	0.38
SCD3308F-471□-PF	470	100KHz	4.00	0.30	0.28
SCD3308F-681□-PF	680	100KHz	5.30	0.20	0.24
SCD3308F-102□-PF	1000	100KHz	8.40	0.10	0.18

Note:
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(5). □Tolerance of inductance±10%(K) ±20%(M) ±30%(N)

SMD Power chokes- SCD-F Series

Electrical Characteristics

Part Number	Inductance (μH)	Test Frequency (Hz)	DC Resistance (ΩMax)	I rms (A) typ.	I sat (A) typ.
SCD3316F-1R0□-PF	1.0	100KHz	9m	9.0	9.80
SCD3316F-1R5□-PF	1.5	100KHz	10m	8.0	9.20
SCD3316F-2R2□-PF	2.2	100KHz	13m	7.0	7.00
SCD3316F-3R3□-PF	3.3	100KHz	15m	6.4	6.50
SCD3316F-4R7□-PF	4.7	100KHz	18m	5.4	5.60
SCD3316F-6R8□-PF	6.8	100KHz	27m	4.6	4.50
SCD3316F-100□-PF	10	100KHz	38m	3.8	3.90
SCD3316F-150□-PF	15	100KHz	56m	3.0	3.10
SCD3316F-220□-PF	22	100KHz	85m	2.6	2.70
SCD3316F-330□-PF	33	100KHz	0.10	2.0	2.10
SCD3316F-470□-PF	47	100KHz	0.16	1.6	1.80
SCD3316F-680□-PF	68	100KHz	0.22	1.4	1.50
SCD3316F-101□-PF	100	100KHz	0.28	1.2	1.30
SCD3316F-151□-PF	150	100KHz	0.40	1.0	1.00
SCD3316F-221□-PF	220	100KHz	0.61	0.8	0.80
SCD3316F-331□-PF	330	100KHz	1.02	0.6	0.68
SCD3316F-471□-PF	470	100KHz	1.27	0.5	0.60
SCD3316F-681□-PF	680	100KHz	2.20	0.4	0.42
SCD3316F-102□-PF	1000	100KHz	3.00	0.3	0.34

Note:
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(4). DC current(A)that will cause Lo to drop approximately 10%.
(5). □Tolerance of inductance±10%(K) ±20%(M) ±30%(N)

SMD Power chokes- SCD-F Series

Electrical Characteristics

Part Number	Inductance (μH)	Test Frequency (Hz)	DC Resistance (ΩMax)	I rms (A) typ.	I sat (A) typ.
SCD3326F-3R3□-PF	3.3	100KHz	14m	10.0	8.30
SCD3326F-4R7□-PF	4.7	100KHz	18m	9.5	7.20
SCD3326F-6R8□-PF	6.8	100KHz	23m	9.0	6.00
SCD3326F-100□-PF	10	100KHz	31m	8.2	5.00
SCD3326F-150□-PF	15	100KHz	47m	6.5	4.00
SCD3326F-220□-PF	22	100KHz	67m	5.2	3.00
SCD3326F-330□-PF	33	100KHz	0.10	4.3	2.50
SCD3326F-470□-PF	47	100KHz	0.15	3.5	2.00
SCD3326F-680□-PF	68	100KHz	0.20	3.0	1.70
SCD3326F-101□-PF	100	100KHz	0.28	2.5	1.40
SCD3326F-151□-PF	150	100KHz	0.43	2.0	1.10
SCD3326F-221□-PF	220	100KHz	0.60	1.6	0.86
SCD3326F-331□-PF	330	100KHz	0.88	1.4	0.70
SCD3326F-471□-PF	470	100KHz	1.25	1.1	0.60
SCD3326F-681□-PF	680	100KHz	1.80	0.9	0.54
SCD3326F-102□-PF	1000	100KHz	2.70	0.7	0.45

Note:
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(5). □Tolerance of inductance±10%(K) ±20%(M) ±30%(N)

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Electrical Characteristics

Part Number	Inductance (μH)	Test Frequency (Hz)	DC Resistance (ΩMax)	I rms (A) typ.	I sat (A) typ.
SCD3340F-1R5□-PF	1.5	100KHz	11m	18	13.50
SCD3340F-2R2□-PF	2.2	100KHz	15m	14	11.50
SCD3340F-3R3□-PF	3.3	100KHz	12m	15	10.50
SCD3340F-4R7□-PF	4.7	100KHz	25m	10	8.50
SCD3340F-6R8□-PF	6.8	100KHz	30m	9.5	6.10
SCD3340F-8R0□-PF	8	100KHz	35m	9.0	5.60
SCD3340F-100□-PF	10	100KHz	40m	8.0	5.40
SCD3340F-150□-PF	15	100KHz	50m	7.0	4.50
SCD3340F-220□-PF	22	100KHz	66m	5.5	3.80
SCD3340F-330□-PF	33	100KHz	80m	4.0	3.30
SCD3340F-470□-PF	47	100KHz	110m	3.8	2.80
SCD3340F-680□-PF	68	100KHz	170m	3.0	2.10
SCD3340F-101□-PF	100	100KHz	220m	2.5	1.80
SCD3340F-151□-PF	150	100KHz	340m	2.0	1.50
SCD3340F-221□-PF	220	100KHz	440m	1.6	1.20
SCD3340F-331□-PF	330	100KHz	700m	1.2	1.00
SCD3340F-471□-PF	470	100KHz	1.1	1.0	0.71
SCD3340F-681□-PF	680	100KHz	1.2	1.0	0.64
SCD3340F-102□-PF	1000	100KHz	2.0	0.8	0.58

Note:
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(5). □Tolerance of inductance±10%(K) ±20%(M) ±30%(N)

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Electrical Characteristics

Part Number	Inductance (μH)	Test Frequency (Hz)	DC Resistance (ΩMax)	I rms (A) typ.	I sat (A) typ.
SCD5022F-1R0□-PF	1.0	100KHz	9m	20.0	10.50
SCD5022F-2R2□-PF	2.2	100KHz	14m	16.0	9.00
SCD5022F-3R3□-PF	3.3	100KHz	15m	14.0	8.00
SCD5022F-4R7□-PF	4.7	100KHz	19m	13.0	7.10
SCD5022F-5R6□-PF	5.6	100KHz	20m	12.0	6.30
SCD5022F-6R8□-PF	6.8	100KHz	25m	11.5	5.60
SCD5022F-100□-PF	10	100KHz	31m	10.0	5.20
SCD5022F-150□-PF	15	100KHz	36m	8.0	4.50
SCD5022F-220□-PF	22	100KHz	47m	7.0	3.90
SCD5022F-330□-PF	33	100KHz	66m	5.5	3.30
SCD5022F-470□-PF	47	100KHz	86m	4.5	2.80
SCD5022F-680□-PF	68	100KHz	0.13	3.5	2.36
SCD5022F-101□-PF	100	100KHz	0.19	3.0	1.95
SCD5022F-151□-PF	150	100KHz	0.25	2.6	1.60
SCD5022F-221□-PF	220	100KHz	0.38	2.4	1.20
SCD5022F-331□-PF	330	100KHz	0.56	1.9	1.00
SCD5022F-471□-PF	470	100KHz	0.85	1.4	0.80
SCD5022F-681□-PF	680	100KHz	1.24	1.2	0.68
SCD5022F-102□-PF	1000	100KHz	1.80	1.0	0.58

Note:
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(5). □Tolerance of inductance±10%(K) ±20%(M) ±30%(N)

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Electrical Characteristics

Part Number	Inductance (μH)	Test Frequency (Hz)	DC Resistance (ΩMax)	I rms (A) typ.	I sat (A) typ.
SCD5040F-4R7□-PF	4.7	100KHz	8.5m	24.0	14.0
SCD5040F-5R6□-PF	5.6	100KHz	9.8m	20.3	12.5
SCD5040F-6R8□-PF	6.8	100KHz	11.5m	18.5	11.2
SCD5040F-100□-PF	10	100KHz	15.7m	16.7	9.5
SCD5040F-150□-PF	15	100KHz	23.5m	13.0	8.0
SCD5040F-220□-PF	22	100KHz	34.2m	10.6	6.5
SCD5040F-330□-PF	33	100KHz	51.2m	8.6	5.0
SCD5040F-470□-PF	47	100KHz	71.4m	7.0	4.0
SCD5040F-680□-PF	68	100KHz	0.10	6.5	3.2
SCD5040F-101□-PF	100	100KHz	0.15	5.0	2.8
SCD5040F-151□-PF	150	100KHz	0.22	4.0	2.3
SCD5040F-221□-PF	220	100KHz	0.31	3.3	1.8
SCD5040F-331□-PF	330	100KHz	0.45	2.7	1.5
SCD5040F-471□-PF	470	100KHz	0.60	2.2	1.2
SCD5040F-681□-PF	680	100KHz	0.89	1.9	1.0
SCD5040F-101□-PF	1000	100KHz	1.28	1.5	0.9

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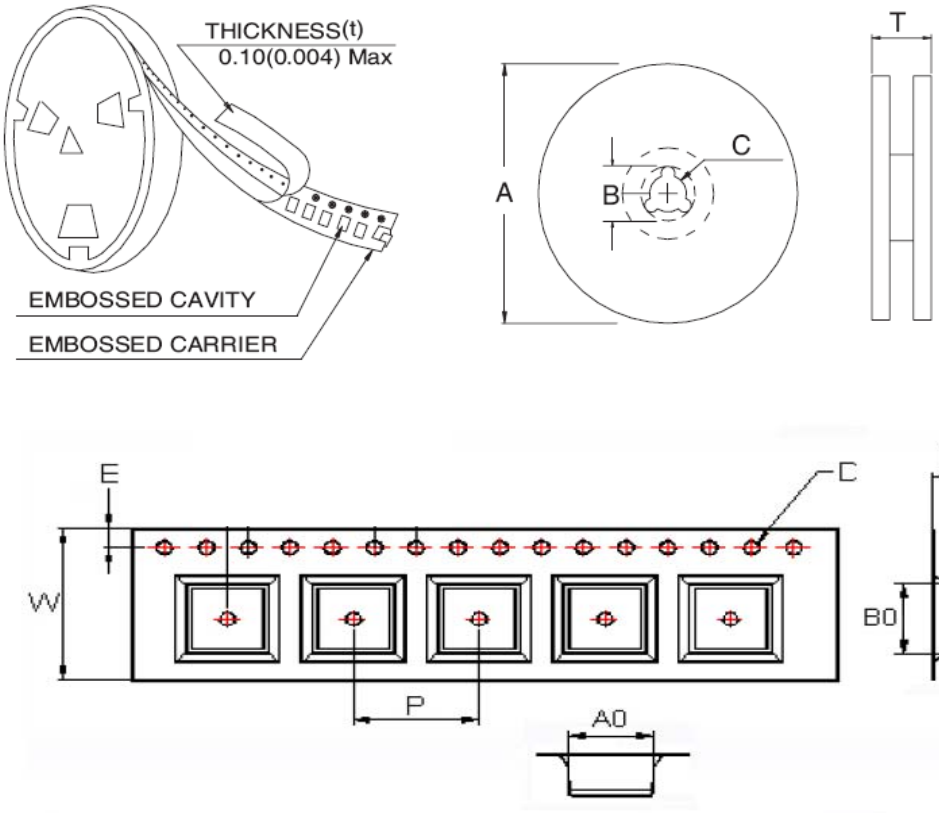
PACKAGING

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

SERIES	Ao(mm)	Bo(mm)	Ko(mm)	W(mm)	P(mm)	PCS/REEL
SCD1608F	4.4±0.1	6.7±0.1	3.2±0.1	16±0.3	8±0.1	2000
SCD3308F	9.7±0.1	13.25±0.1	3.3±0.1	24±0.3	16±0.1	1200
SCD3316F	9.65±0.1	13.3±0.1	5.6±0.1	24±0.3	12±0.1	800
SCD3326F	9.7±0.1	13.25±0.1	8.0±0.1	24±0.3	16±0.1	500
SCD3340F	9.7±0.1	13.25±0.1	11.3±0.1	32±0.3	24±0.1	250
SCD5022F	15.4±0.1	18.8±0.1	7.5±0.1	32±0.3	20±0.1	250
SCD5040F	15.4±0.1	19.3±0.1	11.5±0.1	32±0.3	24±0.1	200