

SUNLEI TECHNOLOGY CORP.

SMD Power chokes- SCD-C Series

SCD series Shielded 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.

Product Identification

SCD 1608C – 100 M -PF

SCD: SERIES NAME

1608:Dimensions CODE

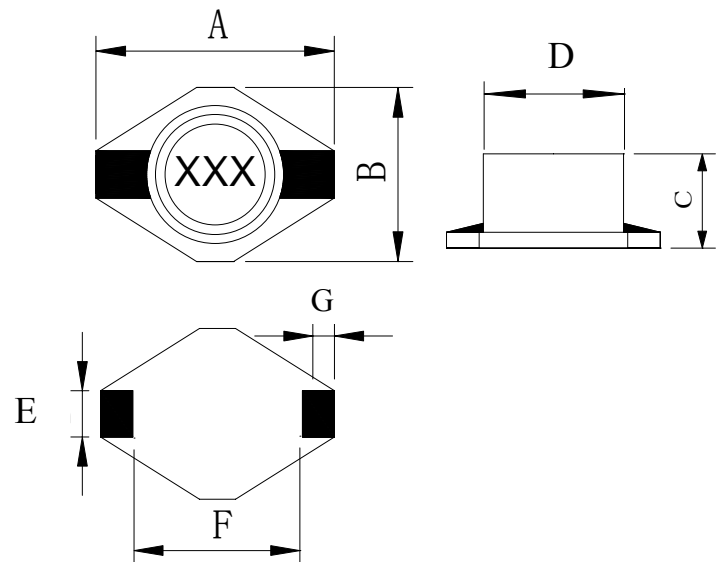
C:RI CORE TYPE

100: INDUCTANCE CODE.

M: TOLERANCE, K=10% M=20%.

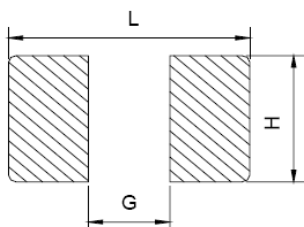
PF:Pb-Free

Dimensions (mm)



SERIES	A	B	C	D	E	F	G
SCD1608C	6.6MAX	4.45MAX	2.92MAX	4.06REF	1.27REF	4.32REF	1.02REF
SCD3316C	13.45MAX	9.9MAX	5.08MAX	8.38REF	2.54REF	7.2REF	2.54REF
SCD5022C	19.04MAX	15.74MAX	7.62AX	12.7REF	2.54REF	12.7REF	2.54REF

RECOMMENDER P.C.B LAYOUT



SERIES	L	H	G
SCD1608C	6.86	3.56	4.06
SCD3316C	13.00	3.00	7.00
SCD5022C	18.80	3.50	12.20

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Electrical Characteristics

Part Number	Inductance (μ H)	Test Frequency (Hz)	DC Resistance (Ω Max)	I rms (A) typ.	I sat (A) typ.
SCD1608C-1R0□-PF	1.0	100KHz	40m	1.40	4.00
SCD1608C-1R5□-PF	1.5	100KHz	45m	0.93	3.24
SCD1608C-2R2□-PF	2.2	100KHz	50m	0.92	2.91
SCD1608C-3R3□-PF	3.3	100KHz	55m	0.75	2.61
SCD1608C-4R7□-PF	4.7	100KHz	60m	0.58	2.47
SCD1608C-6R8□-PF	6.8	100KHz	65m	0.45	2.22
SCD1608C-100□-PF	10	100KHz	75m	0.37	2.00
SCD1608C-150□-PF	15	100KHz	90m	0.31	1.70
SCD1608C-220□-PF	22	100KHz	138m	0.30	1.44
SCD1608C-330□-PF	33	100KHz	190m	0.27	1.15
SCD1608C-470□-PF	47	100KHz	230m	0.24	1.03
SCD1608C-680□-PF	68	100KHz	340m	0.17	0.80
SCD1608C-101□-PF	100	100KHz	480m	0.13	0.72
SCD1608C-151□-PF	150	100KHz	750m	0.10	0.64
SCD1608C-221□-PF	220	100KHz	1.22	0.09	0.48
SCD1608C-331□-PF	330	100KHz	1.83	0.07	0.40
SCD1608C-471□-PF	470	100KHz	2.85	0.06	0.32
SCD1608C-681□-PF	680	100KHz	3.60	0.055	0.28
SCD1608C-102□-PF	1000	100KHz	5.35	0.045	0.22

Note:

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

SMD Power chokes- SCD-C Series

Electrical Characteristics

Part Number	Inductance (μ H)	Test Frequency (Hz)	DC Resistance (Ω Max)	I rms (A) typ.	I sat (A) typ.
SCD3316C-1R0□-PF	1.0	100KHz	21m	5.60	6.00
SCD3316C-1R5□-PF	1.5	100KHz	22m	5.20	5.70
SCD3316C-2R2□-PF	2.2	100KHz	32m	5.00	4.59
SCD3316C-3R3□-PF	3.3	100KHz	39m	3.90	4.37
SCD3316C-4R7□-PF	4.7	100KHz	54m	3.20	3.73
SCD3316C-6R8□-PF	6.8	100KHz	75m	2.80	2.61
SCD3316C-100□-PF	10	100KHz	0.10	2.40	2.34
SCD3316C-150□-PF	15	100KHz	0.15	2.00	1.87
SCD3316C-220□-PF	22	100KHz	0.21	1.60	1.49
SCD3316C-330□-PF	33	100KHz	0.33	1.40	1.20
SCD3316C-470□-PF	47	100KHz	0.47	1.00	0.96
SCD3316C-680□-PF	68	100KHz	0.66	0.90	0.77
SCD3316C-101□-PF	100	100KHz	0.92	0.80	0.61
SCD3316C-151□-PF	150	100KHz	1.29	0.70	0.49
SCD3316C-221□-PF	220	100KHz	2.20	0.50	0.39
SCD3316C-331□-PF	330	100KHz	2.50	0.38	0.31
SCD3316C-471□-PF	470	100KHz	3.70	0.35	0.28
SCD3316C-681□-PF	680	100KHz	6.40	0.30	0.23
SCD3316C-102□-PF	1000	100KHz	9.60	0.20	0.20

Note:

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

SMD Power chokes- SCD-C Series

Electrical Characteristics

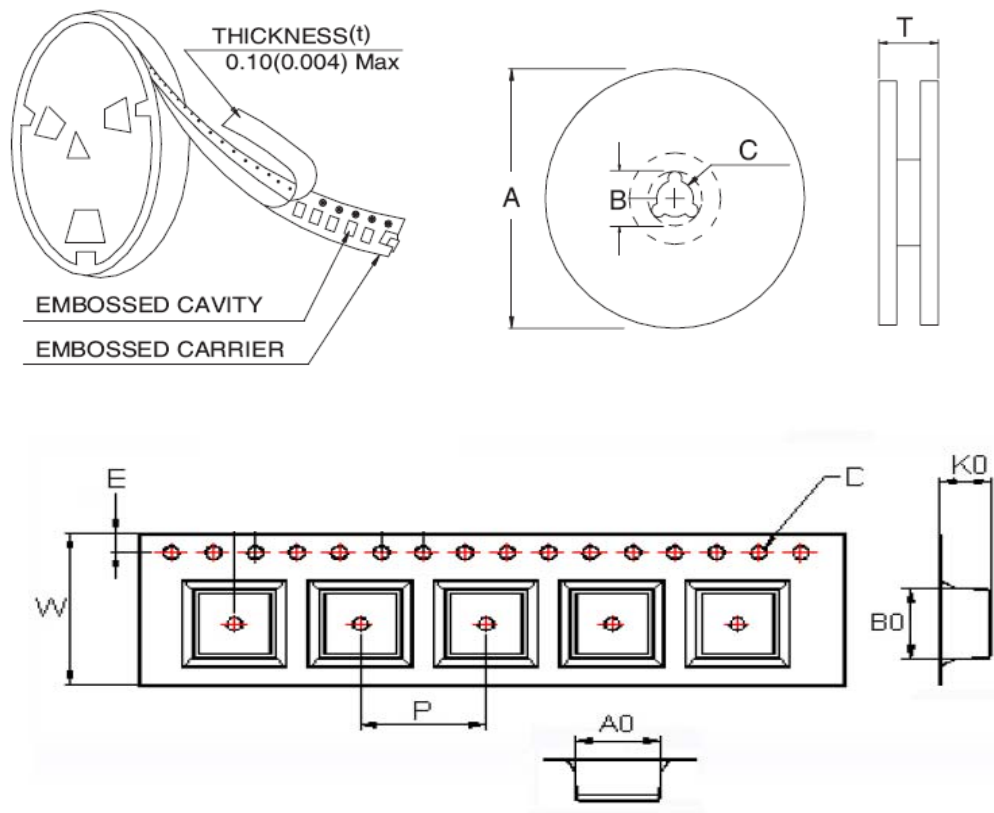
Part Number	Inductance (μ H)	Test Frequency (Hz)	DC Resistance (Ω Max)	I rms (A) typ.	I sat (A) typ.
SCD5022C-100□-PF	10	100KHz	40m	8.00	5.00
SCD5022C-150□-PF	15	100KHz	48m	7.00	4.00
SCD5022C-220□-PF	22	100KHz	59m	6.00	3.80
SCD5022C-330□-PF	33	100KHz	75m	5.00	3.20
SCD5022C-470□-PF	47	100KHz	97m	4.00	2.80
SCD5022C-680□-PF	68	100KHz	0.138	3.00	2.20
SCD5022C-101□-PF	100	100KHz	0.207	2.40	1.80
SCD5022C-151□-PF	150	100KHz	0.293	2.10	1.50
SCD5022C-221□-PF	220	100KHz	0.470	1.90	1.20
SCD5022C-331□-PF	330	100KHz	0.780	1.10	0.90
SCD5022C-471□-PF	470	100KHz	1.08	1.10	0.80
SCD5022C-681□-PF	680	100KHz	1.40	1.00	0.65
SCD5022C-102□-PF	1000	100KHz	2.01	0.80	0.54

Note:

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

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
SCD1608C	4.4±0.1	6.7±0.1	3.2±0.1	16±0.3	8±0.1	2000
SCD3316C	9.7±0.1	13.3±0.1	5.6±0.1	24±0.3	12±0.1	800
SCD5022C	15.4±0.1	18.8±0.1	7.5±0.1	32±0.3	20±0.1	250