

# SUNLEI TECHNOLOGY CORP.

## SMD Power chokes- SCEP Series

SCEP series For High Current 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

SCEP 125U – 100 M -PF

SCEP: SERIES NAME

60:Dimensions CODE

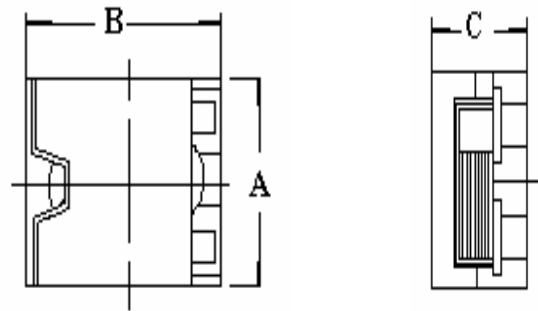
B:RI CORE TYPE

100: INDUCTANCE CODE.

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

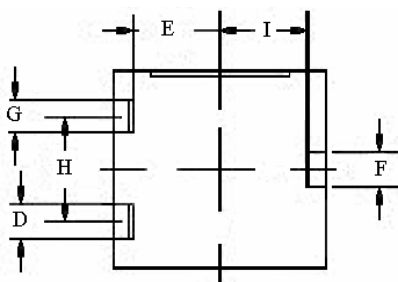
PF:Pb-Free

### Dimensions (mm)



SERIES	A	B	C
SCEP104	10.4MAX	10.4MAX	4.5MAX
SCEP105	10.4MAX	10.4MAX	5.6MAX
SCEP125	12.9MAX	12.9MAX	5.8MAX
SCEP134	13.9MAX	13.9MAX	4.9MAX
SCEP147	14.9MAX	15.0MAX	8.1MAX

### RECOMMENDER P.C.B LAYOUT



D	E	F	G	H	I
2.6	2.9	1.4	2.6	5.5	3.8
2.6	2.9	1.4	2.6	5.5	3.8
2.6	4.0	2.5	2.6	7.0	4.2
2.6	5.0	2.5	2.6	7.0	4.6
2.8	5.0	2.5	2.8	9.0	5.5

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### Electrical Characteristics

Part Number	Inductance ( $\mu$ H)	Test Frequency (Hz)	DC Resistance (m $\Omega$ Max)	Rated current (A)Max	Itemp(A) Max
SCEP104S-0R22□-PF	0.22	100	2.6	39.6	23.0
SCEP104S-0R45□-PF	0.45	100	3.7	27.6	17.0
SCEP104S-0R8□-PF	0.8	100	5.9	20.7	14.0
SCEP104S-1R3□-PF	1.3	100	11.8	16.6	10.5
SCEP104S-1R8□-PF	1.8	100	18.6	13.3	8.0
SCEP104S-2R5□-PF	2.5	100	21.8	11.8	7.4
SCEP104L-0R36□-PF	0.36	100	2.6	24.2	22.0
SCEP104L-0R8□-PF	0.8	100	3.7	16.2	15.0
SCEP104L-1R4□-PF	1.4	100	5.9	12.2	13.5
SCEP104L-2R2□-PF	2.2	100	11.8	9.8	10.5
SCEP104L-3R2□-PF	3.2	100	18.6	8.1	8.0
SCEP104L-4R3□-PF	4.3	100	21.8	7.0	7.2

Note:

- (1). All test data is referenced to 25°C ambient.
- (2). Operating Temperature Range-55°C to +105°C.
- (3). DC current(A)that will cause an approximate $\Delta$ T of 40°C.
- (4). DC current(A)that will cause Lo to drop approximately 25%.
- (5). □Tolerance of inductance  $\pm$ 20%(M)  $\pm$ 30%(N)

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Part Number	Inductance ( $\mu$ H)	Test Frequency (Hz)	DC Resistance (m $\Omega$ Max)	Rated current (A)Max	Itemp(A) Max
SCEP105S-0R2□-PF	0.22	100	2.6	40	20.0
SCEP105S-0R45□-PF	0.45	100	3.2	26.4	18.0
SCEP105S-0R8□-PF	0.8	100	4.1	20.8	14.0
SCEP105S-1R3□-PF	1.3	100	5.3	16.8	13.0
SCEP105S-1R8□-PF	1.8	100	7.5	13.8	11.5
SCEP105S-2R5□-PF	2.5	100	10.5	11.8	9.0
SCEP105S-3R2□-PF	3.2	100	12.4	10.5	8.0
SCEP105S-4R0□-PF	4	100	18	9.3	7.5
SCEP105S-5R0□-PF	5	100	23.8	8.4	6.7
SCEP105L-0R3□-PF	0.36	100	1.7	24	21.0
SCEP105L-0R8□-PF	0.8	100	2.4	16	18.0
SCEP105L-1R4□-PF	1.4	100	4.1	12	14.0
SCEP105L-2R2□-PF	2.2	100	5.3	9.6	13.0
SCEP105L-3R2□-PF	3.2	100	7.5	7.8	10.5
SCEP105L-4R3□-PF	4.3	100	10.5	6.8	9.0
SCEP105L-5R7□-PF	5.7	100	12.4	5.8	8.0
SCEP105L-7R2□-PF	7.2	100	18	5.3	7.8
SCEP105L-8R8□-PF	8.8	100	23.8	4.5	7.0
SCEP105H-0R15□-PF	0.15	100	1.7	55.0	20.0
SCEP105H-0R3□-PF	0.3	100	2.4	40.0	18.8
SCEP105H-0R5□-PF	0.5	100	4.1	30.4	15.0
SCEP105H-0R8□-PF	0.8	100	5.3	25.2	13.5
SCEP105H-1R2□-PF	1.2	100	7.5	21.0	11.0
SCEP105H-1R5□-PF	1.5	100	10.5	18.0	8.5
SCEP105H-2R0□-PF	2	100	12.4	15.8	8.0
SCEP105H-2R5□-PF	2.5	100	18	14.0	7.8
SCEP105H-3R0□-PF	3	100	23.8	12.6	7.2

Note:

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## Electrical Characteristics

Part Number	Inductance ( $\mu$ H)	Test Frequency (Hz)	DC Resistance (m $\Omega$ Max)	Rated current (A)Max	Itemp(A) Max
SCEP125-1R2□-PF	1.2	100	2.5	17.0	21.0
SCEP125-1R5□-PF	1.5	100	2.5	14.0	17.0
SCEP125-2R5□-PF	2.5	100	3.4	10.0	15.0
SCEP125-4R0□-PF	4	100	5.4	8.3	14.0
SCEP125-6R0□-PF	6	100	8	6.7	12.0
SCEP125-8R2□-PF	8.2	100	11.4	5.8	10.0
SCEP125-100□-PF	10	100	13.5	5.0	9.0
SCEP125H-1R0□-PF	1	100	2.5	20	20.00
SCEP125H-1R8□-PF	1.8	100	3.4	15.3	13.00
SCEP125H-2R8□-PF	2.8	100	5.4	12.3	12.20
SCEP125H-4R0□-PF	4	100	8	10.3	11.80
SCEP125H-5R6□-PF	5.6	100	11.4	8.8	9.80
SCEP125H-7R2□-PF	7.2	100	13.5	7.8	8.80
SCEP125U-0R3□-PF	0.3	100	1.8	35	23.50
SCEP125U-0R6□-PF	0.6	100	2.5	30.2	18.80
SCEP125U-0R8□-PF	0.8	100	2.5	27.2	17.80
SCEP125U-1R4□-PF	1.4	100	3.4	20.8	14.00
SCEP125U-2R2□-PF	2.2	100	5.4	14.8	13.50
SCEP125U-3R2□-PF	3.2	100	8	12.8	13.00
SCEP125U-4R3□-PF	4.3	100	11.4	11	10.50
SCEP125U-5R6□-PF	5.6	100	13.5	9.5	9.00

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Part Number	Inductance ( $\mu$ H)	Test Frequency (Hz)	DC Resistance (m $\Omega$ Max)	Rated current (A)Max	Itemp(A) Max
SCEP134S-0R4□-PF	0.4	100	2.5	32.0	19.0
SCEP134S-0R9□-PF	0.9	100	3.2	21.6	17.0
SCEP134S-1R6□-PF	1.6	100	4	16.0	16.0
SCEP134S-2R5□-PF	2.5	100	6.6	12.8	12.5
SCEP134S-3R6□-PF	3.6	100	10.8	10.9	10.8
SCEP134S-4R8□-PF	4.8	100	12	9.3	9.8
SCEP134S-6R4□-PF	6.4	100	16.3	8.0	8.5
SCEP134S-8R0□-PF	8.0	100	18.4	7.2	7.0
SCEP134H-0R3□-PF	0.3	100	2.5	35.0	18.0
SCEP134H-0R7□-PF	0.7	100	3.2	29.6	17.0
SCEP134H-1R2□-PF	1.2	100	4	21.0	15.0
SCEP134H-1R8□-PF	1.8	100	6.6	17.6	13.6
SCEP134H-2R7□-PF	2.7	100	10.8	14.7	12.0
SCEP134H-3R6□-PF	3.6	100	12	12.5	10.0
SCEP134H-4R8□-PF	4.8	100	16.3	11.0	9.0
SCEP134H-6R0□-PF	6.0	100	18.4	9.6	8.0

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## Electrical Characteristics

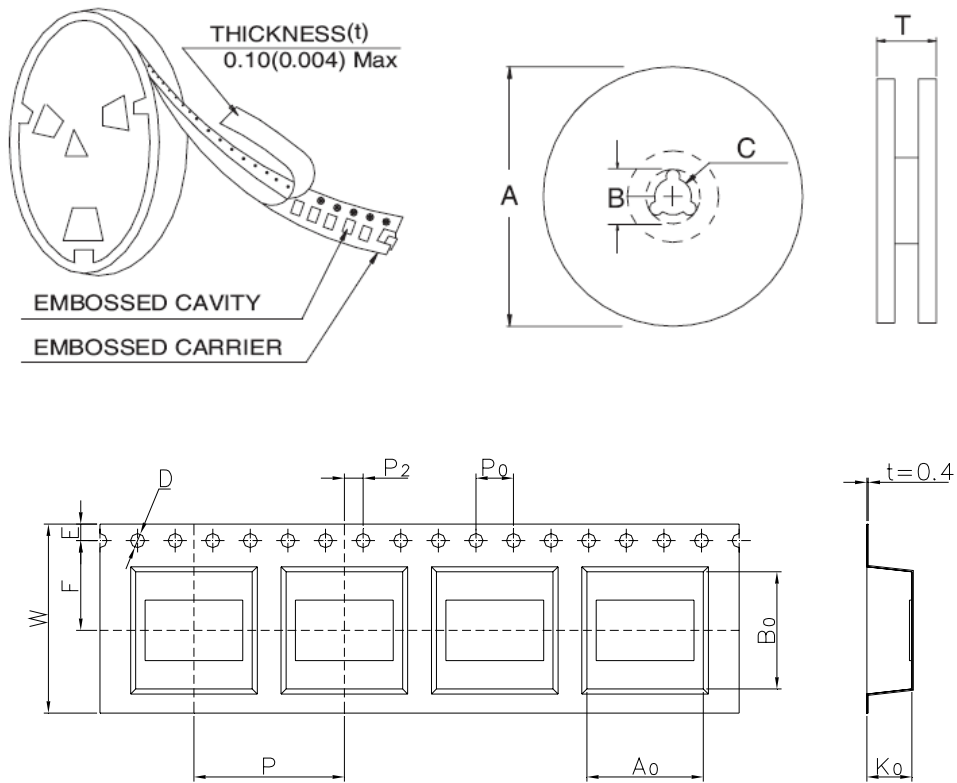
Part Number	Inductance ( $\mu$ H)	Test Frequency (Hz)	DC Resistance (m $\Omega$ Max)	Rated current (A)Max	Itemp(A) Max
SCEP147S-0R4□-PF	0.4	100	2.1	52.8	23.0
SCEP147S-0R9□-PF	0.9	100	2.65	36.0	18.0
SCEP147S-1R5□-PF	1.5	100	3.5	27.2	16.0
SCEP147S-2R4□-PF	2.4	100	3.9	22.4	13.0
SCEP147S-3R4□-PF	3.4	100	5.5	18.4	12.3
SCEP147S-4R7□-PF	4.7	100	7.5	15.2	12.0
SCEP147S-6R1□-PF	6.1	100	7.8	14.8	11.0
SCEP147S-7R7□-PF	7.7	100	9.85	12.4	10.0
SCEP147S-9R5□-PF	9.5	100	13.3	11.2	9.3
SCEP147L-0R5□-PF	0.5	100	2.1	39.6	24.0
SCEP147L-1R1□-PF	1.1	100	2.65	26.4	22.0
SCEP147L-2R0□-PF	2	100	3.5	19.6	19.5
SCEP147L-3R1□-PF	3.1	100	3.9	16.0	16.2
SCEP147L-4R5□-PF	4.5	100	5.5	13.6	14.0
SCEP147L-6R1□-PF	6.1	100	7.5	11.6	13.5
SCEP147L-8R0□-PF	8.0	100	7.8	10.0	11.5
SCEP147L-100□-PF	10.0	100	9.85	9.2	10.2
SCEP147L-120□-PF	12.0	100	13.3	8.0	9.0
SCEP147H-0R3□-PF	0.3	100	2.1	70.0	23.0
SCEP147H-0R7□-PF	0.7	100	2.65	46.4	20.0
SCEP147H-1R2□-PF	1.2	100	3.5	35.7	19.5
SCEP147H-1R8□-PF	1.8	100	3.9	29.6	16.5
SCEP147H-2R6□-PF	2.6	100	5.5	24.4	14.0
SCEP147H-3R5□-PF	3.5	100	7.5	20.8	13.5
SCEP147H-4R7□-PF	4.7	100	7.8	17.6	11.5
SCEP147H-5R9□-PF	5.9	100	9.85	16.4	10.5
SCEP147H-7R3□-PF	7.3	100	13.3	14.6	9.0

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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
SCEP104	10.5±0.1	10.7±0.1	5.2±0.1	24±0.3	16±0.1	500
SCEP105	10.5±0.1	10.7±0.1	6.0±0.1	24±0.3	16±0.1	500
SCEP125	12.9±0.1	12.9±0.1	6.3±0.1	24±0.3	16±0.1	500
SCEP134	14.1±0.1	14.1±0.1	5.2±0.1	24±0.3	20±0.1	500
SCEP147	15.0±0.1	15.4±0.1	8.3±0.1	32±0.3	20±0.1	300