

## SCD Series

### Features

RoHS, Halogen Free and REACH Compliance  
Unshielded power inductor  
Various package size and wide inductance range

### Applications

Graphic cards  
DC/DC Converters etc

### Product Identification

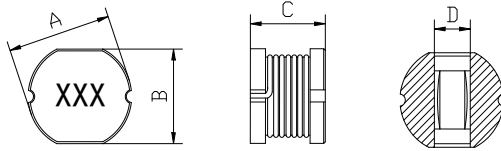
SCD XX TL - XXXX  
For example:SCD43TL-100M

### General Specifications

Test frequency.....100KHz  
Test Voltage.....1.0V  
Parameters Test Temp..... 25°C  
Operation Temp.....-40°C to +125°C  
(Including temperature Rise)  
Storage Temp.....0~40°C  
Storage Humidity.....<70% RH  
Resistance to Soldering Heat.....260°C for 10 sec  
Rated Current.....Ind. drops of 10%typ at Isat  
Temperature Rise.....40°C. at Irms

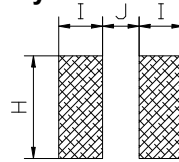
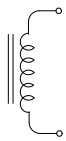
## Shape And Dimensions

## Dimensions In mm



TYPE	A	B	C	D	H	I	J
	±0.3	±0.3	±0.3	Ref	Ref	Ref	Ref
3015	3.5	3.0	1.6	1.0	3.5	1.5	1.0
32	3.5	3.0	2.1	1.0	3.5	1.5	1.0
43	4.5	4.0	3.2	1.6	4.5	2.15	1.2
54	5.8	5.2	4.5	2.0	5.5	2.4	2.0
75	7.8	7.0	5.0	2.5	7.5	3.35	2.1
105	10.0	9.0	5.4	3.0	9.5	3.75	2.5

## Electrical Schematic & PAD Layout



## Standard Specifications

Stamp	Inductance (uH)	SCD3015		SCD32		SCD43		SCD54		SCD75		SCD105	
		DCR (mΩ) Max	Isat (A) Typ	DCR (mΩ) Max	Isat (A) Typ	DCR (mΩ) Max	Isat (A) Typ	DCR (mΩ) Max	Isat (A) Typ	DCR (mΩ) Max	Isat (A) Typ	DCR (mΩ) Max	Isat (A) Typ
1R0	1.0			35	3.20	30	3.80	25	4.70	15	5.50		
1R2	1.2			50	2.60	36	3.50	30	4.40				
1R5	1.5			75	2.40	40	3.30	35	4.00	18	5.00		
2R2	2.2	130	0.79	130	2.35	47	2.90	40	3.20	22	4.50		
2R7	2.7			140	1.90	52	2.50	45	3.00				
3R3	3.3	150	0.85	170	1.80	58	2.40	48	2.80	30	4.00		
3R9	3.9					76	1.98	55	2.50				
4R7	4.7	180	0.65	210	1.40	94	1.90	60	2.40	35	3.60		
5R6	5.6			220	1.20	100	1.80			38	3.30		
6R8	6.8			250	1.15	117	1.60	65	2.30	40	3.10		
8R2	8.2					132	1.26			50	2.70		
100	10.0	390	0.45	320	1.10	182	1.15	85	1.44	70	2.30	60	2.60
120	12.0			350	0.85	210	1.05	100	1.40	80	2.00	70	2.45
150	15.0	754	0.30	420	0.80	235	0.92	120	1.30	90	1.80	80	2.27
180	18.0					338	0.84	150	1.23	100	1.60	90	2.15
220	22.0	923	0.25	580	0.65	378	0.76	170	1.11	110	1.50	100	1.95
270	27.0			650	0.50	410	0.71	200	0.97	120	1.30	110	1.76
330	33.0	1430	0.20	800	0.45	510	0.70	230	0.88	130	1.20	120	1.50
390	39.0					560	0.66			160	1.10	140	1.37
470	47.0	1690	0.17	1200	0.40	800	0.65	350	0.72	180	1.10	170	1.28
560	56.0			1650	0.31	937	0.50			240	0.94	190	1.17
680	68.0	2700	0.16	1800	0.29	1120	0.46	460	0.61	280	0.85	220	1.11
820	82.0					1350	0.45	600	0.58	370	0.78	250	1.00
101	100	2870	0.15	2800	0.25	1520	0.40	700	0.52	430	0.72	350	0.97
121	120							770	0.48	470	0.66	400	0.89
151	150			4200	0.20	2000	0.38	1200	0.46	640	0.58	470	0.78
181	180									710	0.51	630	0.72
221	220	10000	0.13	6000	0.16	3400	0.32	1570	0.42	960	0.49	730	0.66
331	330	16000	0.09	9500	0.12	5300	0.28	1800	0.38	1260	0.40	1150	0.52
391	390			10500	0.11							1300	0.48
471	470			11500	0.095	6800	0.20	3000	0.25	1890	0.33	1480	0.42
561	560							3500	0.22	2000	0.32	1900	0.33
681	680			20500	0.040	10000	0.16	5100	0.19	2560	0.26	2250	0.28
821	820							5300	0.18	3250	0.22	2550	0.24
102	1000					15600	0.13	7000	0.15	3300	0.20		

Note: When ordering, please specify tolerance code. Tolerance: K=±10%, L=±15%, M=±20%, N=±30%

\*All the data listed in this catalogue are for reference only, JENG SHI reserves the right to alter or revise the specifications without prior notification.

\*Beyond the above specification also can meet the special requirements. Need detailed content Please to the website query or contact us.