SCDS Series

Features

- RoHS compliant
- Available in magnetic shielding
- Low DC resistance
- Suitable for large currents
- Ideal for DC – DC converter inductor applications
- Available on tape and reel for auto surface mounting

Applications

- Power supply for VTRs
- OA equipment
- LCD televisions
- Notebook PCs
- Portable communication devices
- DC / DC converters, etc

Product Identification

SCDS

SCDS□□□□ □□ - □□□ □ - □

- CEC Internal No.
- Tolerance
- Inductance
- T or LD or HP
- Dimensions code
- Product Symbol

- T : Packaging: Tape and Reel
- HP : High Power
- LD : Low DCR
- CEC Internal No.: S: Base type terminals

SCDS3D16

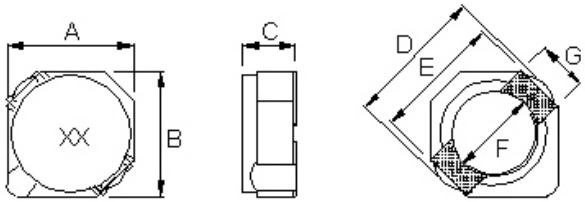
SCDS□□□□ □ - □□□ □ - □ - N

- Lead Free
- CEC Internal No.
- Tolerance
- Inductance
- Packaging Style
- Dimensions code
- Product Symbol

SCDS2D09/2D11/2D14/2D18LD/ 2D18HP

Shape and Dimensions

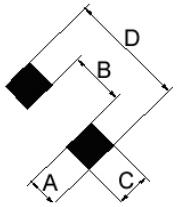




Dimension in mm

TYPE	A	B	C	D	E	F	G
SCDS2D09	3.2^{+0}	3.2^{+0}	1.0^{+0}	4.5^{+0}	3.3	2.1	1.0
SCDS2D11	3.2^{+0}	3.2^{+0}	1.2^{+0}	4.5^{+0}	3.3	2.1	1.0
SCDS2D14	3.2^{+0}	3.2^{+0}	1.55^{+0}	4.5^{+0}	3.3	2.1	1.0
SCDS2D18LD	3.2^{+0}	3.2^{+0}	2.0^{+0}	4.5^{+0}	3.3	2.1	1.0
SCDS2D18HP	3.2^{+0}	3.2^{+0}	2.0^{+0}	4.5^{+0}	3.3	2.1	1.0

Recommended Pattern

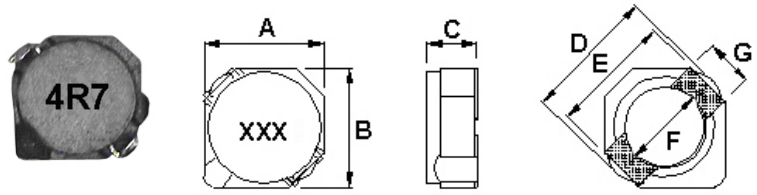


Dimensions in mm

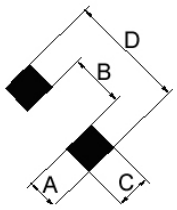
TYPE	A	B	C	D
SCDS2D09	1.3	1.7	1.3	4.3
SCDS2D11	1.3	1.7	1.3	4.3
SCDS2D14	1.3	1.7	1.3	4.3
SCDS2D18LD	1.3	1.7	1.3	4.3
SCDS2D18HP	1.3	1.7	1.3	4.3

SCDS3D11/3D11HP

Shape and Dimensions



Recommended Pattern



Dimension in mm

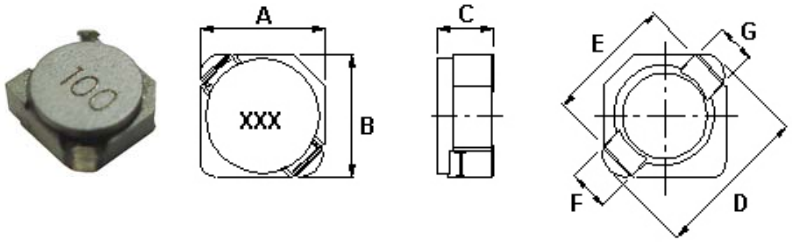
TYPE	A	B	C	D	E	F	G
SCDS3D11	4^{+0}	4^{+0}	1.2^{+0}	5.2^{+0}	4.4	2.8	1.1
SCDS3D11HP	4^{+0}	4^{+0}	1.2^{+0}	5.2^{+0}	4.4	2.8	1.1

Dimensions in mm

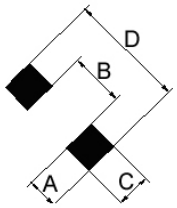
TYPE	A	B	C	D
SCDS3D11	1.4	2.4	1.5	5.2
SCDS3D11HP	1.4	2.4	1.5	5.2

SCDS 3D16T-XXX-S1-N

Shape and Dimensions



Recommended Pattern



Dimensions in mm

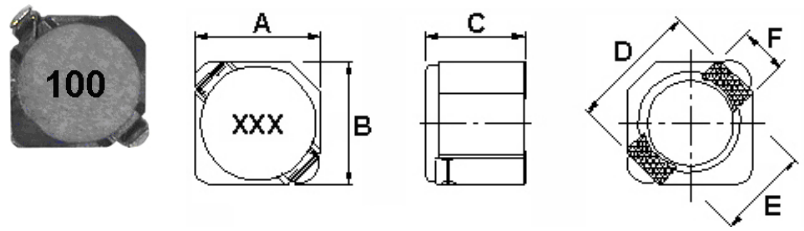
TYPE	A	B	C	D	E	F	G
SCDS3D16	4^{+0}	4^{+0}	1.8^{+0}	5.2^{+0}	4.4Typ	1.4^{+0}	1.1Typ

Dimension in mm

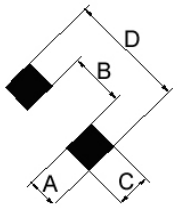
TYPE	A	B	C	D
SCDS3D16	1.4	2.4	1.5	5.2

SCDS3D28/3D28LD

Shape and Dimensions



Recommended Pattern



Dimension in mm

TYPE	A	B	C	D	E	F
SCDS3D28	4^{+0}	4^{+0}	3^{+0}	4.4	2.8	1.1
SCDS3D28LD	4^{+0}	4^{+0}	3^{+0}	4.4	2.8	1.1

Dimensions in mm

TYPE	A	B	C	D
SCDS3D28	1.4	2.4	1.5	5.2
SCDS3D28LD	1.4	2.4	1.5	5.2

Standard Specifications

Stamp	Inductance (μH)	RDC (mΩ) Max									
		SCDS 2D09	SCDS 2D11	SCDS 2D14	SCDS 2D18LD	SCDS 2D18HP	SCDS 3D11	SCDS 3D11HP	SCDS 3D16	SCDS 3D28	SCDS 3D28LD
R60	0.6							59			
1R0	1.0								40		
1R2	1.2	97.5						82			
1R5	1.5	110	68	63				104	52		
1R7	1.7					44					
1R8	1.8	131.3		75							
2R2	2.2	143.8	98	94	41	60		143	72		
2R7	2.7	150		106			78				
3R3	3.3	193.8	123	125	54	86		182	85	72.1	
3R9	3.9	225		138							
4R7	4.7	287.5	170	169	78	140	123	234	105	88.3	
5R6	5.6	325		188					135		
6R3	6.3					160					
6R8	6.8	425.	260	213	106		180	377	170	119	
8R2	8.2	475		281			204				
100	10	537.5	400	294	180	245	240	413	210	145	95
120	12			394			276	585			100
150	15				220	345	372	653	295	213	115
180	18						468	888			125
220	22				320		540	1010	430	335	145
270	27						726				175
330	33				460		822		675	481	215
390	39						942				225
470	47				660					599	305
560	56										325
680	68										470
820	82										540
101	100								2750		610
121	120										755
151	150										880
181	180										1130
221	220										1270

Test Freq. (L): SCDS 2D09/ 2D11/ 2D14/ 2D18LP/2D18HP/3D11/3D11HP/3D28/3D28LD (100KHz/ 1V)

SCDS 3D16 (100KHz/ 0.1V)

Other type: Rated current: The rated current indicates the current when the inductance decreases to 65% of it's nominal value or D.C. current when the temperature rising △t=40°C lower, whichever is lower.

Test Instrument: L: Agilent/ E4980 or HP4284A

RDC: CH502BC

Rated Current: HP4284+42841A or WK3260B+WK3265B

Standard Specifications

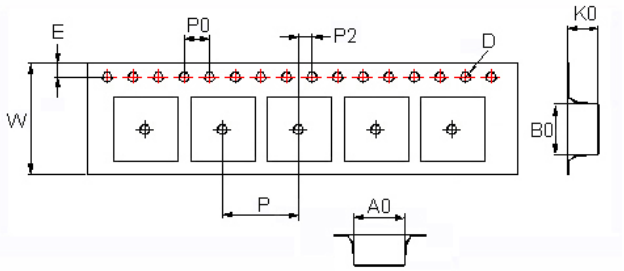
Stamp	Inductance (μH)	Rated Current (A)									
		SCDS 2D09	SCDS 2D11	SCDS 2D14	SCDS 2D18LD	SCDS 2D18HP	SCDS 3D11	SCDS 3D11HP	SCDS 3D16	SCDS 3D28	SCDS 3D28LD
R60	0.6							2.90			
1R0	1.0								1.60		
1R2	1.2	0.8						2.00			
1R5	1.5	0.73	0.90	1.80				1.85	1.55		
1R7	1.7					1.85					
1R8	1.8	0.65		1.65							
2R2	2.2	0.60	0.78	1.50	0.85	1.60		1.60	1.20		
2R7	2.7	0.53		1.35			0.53				
3R3	3.3	0.47	0.60	1.20	0.75	1.45		1.25	1.10	2.00	
3R9	3.9	0.45		1.10							
4R7	4.7	0.41	0.50	1.00	0.63	1.20	0.40	1.00	0.90	1.65	
5R6	5.6	0.37		0.95					0.80		
6R3	6.3					1.05					
6R8	6.8	0.33	0.44	0.85	0.52		0.34	0.85	0.73	1.24	
8R2	8.2	0.30		0.80			0.32				
100	10	0.28	0.35	0.70	0.43	0.85	0.28	0.80	0.55	1.05	0.50
120	12			0.62			0.25	0.64			0.45
150	15				0.35	0.70	0.23	0.58	0.45	0.90	0.40
180	18						0.21	0.52			0.35
220	22				0.30		0.19	0.45	0.40	0.76	0.33
270	27						0.17				0.29
330	33				0.24		0.15		0.32	0.58	0.28
390	39						0.14				0.25
470	47				0.20					0.48	0.23
560	56										0.20
680	68										0.185
820	82										0.172
101	100								0.13		0.160
121	120										0.136
151	150										0.124
181	180										0.119
221	220										0.116

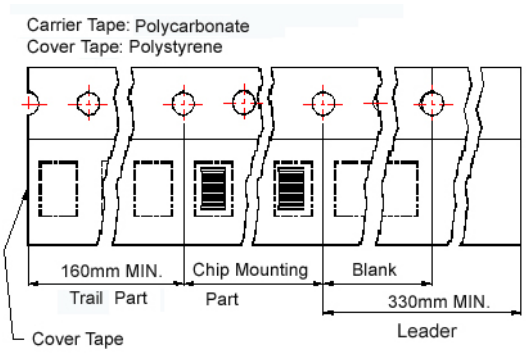
Tolerance Of Inductors

- SCDS 2D09 1.2 ~ 10 uH ± 30%
- SCDS 2D11 1.5 ~ 10uH ± 30%
- SCDS 2D14 1.5 ~ 12μH ± 30%
- SCDS 2D18LD 2.2 ~ 47μH ± 30%
- SCDS 2D18HP 1.7 ~ 15μH ± 30%
- SCDS3D11 2.7 ~ 39 uH ± 30%
- SCDS3D11HP 0.6 ~ 22 uH ± 30%
- SCDS3D16 1.0 ~ 100 uH ± 30%
- SCDS3D28 3.3 ~ 47 uH ± 30%
- SCDS3D28LD 10 ~ 220 uH ± 30%
- Tolerance： M = ±20% , T = ±30% , N = $^{+40}_{-20}$%

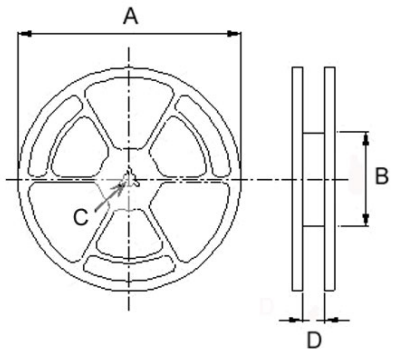
Packaging Specifications

Tape Dimensions





Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
SCDS 2D09	3.35	3.35	1.4	1.55	1.75	12	8	4	2	178	60	13	13.2	1000
SCDS 2D11	3.35	3.35	1.4	1.55	1.75	12	8	4	2	178	60	13	13.2	1000
SCDS 2D14	3.5	3.5	1.7	1.55	1.75	12	8	4	2	178	60	13	13.2	1000
SCDS 2D18	3.5	3.5	2.1	1.55	1.75	12	8	4	2	178	60	13	13.2	1000
SCDS 3D11	4.2	4.2	1.5	1.55	1.75	12	8	4	2	178	60	13	13.2	1000
SCDS 3D16	4.1	4.1	2.0	1.5	1.75	12	8	4	2	178	60	13	13.2	1000
SCDS 3D28	4.2	4.2	3.2	1.55	1.75	12	8	4	2	178	60	13	13.2	500