

SCDS Series

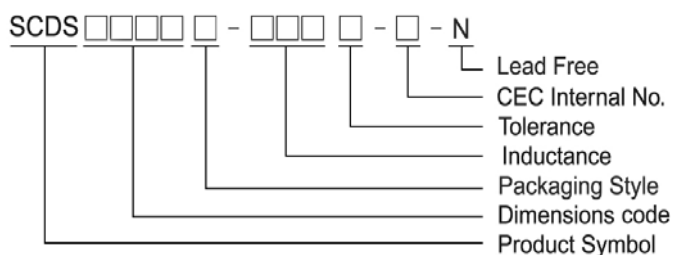
Feature

- RoHS compliant
- Available in magnetically shielded.
- Low DC resistance.
- Suitable for large currents.
- Ideal for a variety of DC – DC converter inductor applications.
- Available on tape and reel for automatic surface mounting.

Applications

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

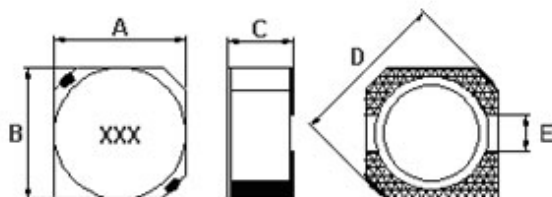
Product Identification



- T : Packaging: Tape and Reel
- CEC Internal No.: S: Base type terminals

SCDS 3D16T-XXXX-S-N

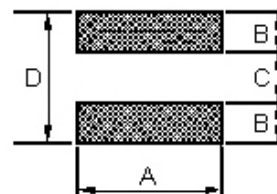
Shapes and Dimensions



Dimensions in mm

TYPE	A	B	C	D	E
SCDS3D16	4 ⁺⁰	4 ⁺⁰	1.8 ⁺⁰	5.2 ⁺⁰	1.0

Recommended Pattern

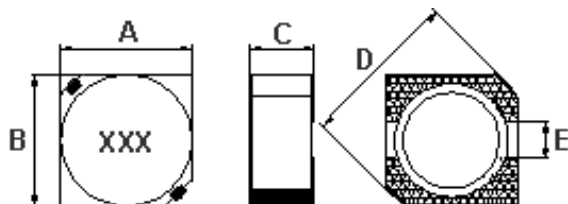


Dimension in mm

TYPE	A	B	C	D
SCDS3D16	4.6	1.6	1.4	4.6

SCDS 4D18 ~ 6D38

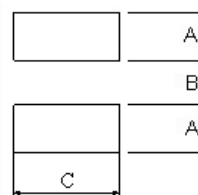
Shapes and Dimensions



Dimension in mm

TYPE	A	B	C	D	E
SCDS4D18	4.7 ± 0.3	4.7 ± 0.3	2.0 ⁺⁰	6.9 ⁺⁰	1.5
SCDS4D28	4.7 ± 0.3	4.7 ± 0.3	3.0 ⁺⁰	6.9 ⁺⁰	1.5
SCDS4D40	4.7 ± 0.3	4.7 ± 0.3	4 ⁺⁰	6.9 ⁺⁰	1.5
SCDS5D18	5.7 ± 0.3	5.7 ± 0.3	2.0 ⁺⁰	8.2 ⁺⁰	2.0
SCDS5D28	5.7 ± 0.3	5.7 ± 0.3	3.0 ⁺⁰	8.2 ⁺⁰	2.0
SCDS6D28	6.7 ± 0.3	6.7 ± 0.3	3.0 ⁺⁰	9.5 ⁺⁰	2.0
SCDS6D38	7 ⁺⁰	7 ⁺⁰	4 ⁺⁰	9.5 ⁺⁰	2.0

Recommended Pattern



Dimension in mm

TYPE	A	B	C
SCDS4D18	1.9	1.5	5.3
SCDS4D28	1.9	1.5	5.3
SCDS4D40	1.9	1.5	5.3
SCDS5D18	2.15	2.0	6.3
SCDS5D28	2.15	2.0	6.3
SCDS6D28	2.65	2.0	7.3
SCDS6D38	2.65	2.0	7.3

SMD Shielded Power Inductors - SCDS Series

Stamp	Inductance (μH)	D.C.R (mΩ) Max								Rated Current (A)							
		SCDS 3D16	SCDS 4D18	SCDS 4D28	SCDS 4D40	SCDS 5D18	SCDS 5D28	SCDS 6D28	SCDS 6D38	SCDS 3D16	SCDS 4D18	SCDS 4D28	SCDS 4D40	SCDS 5D18	SCDS 5D28	SCDS 6D28	SCDS 6D38
1R0	1.0		45								1.72						
1R2	1.2			23.6								2.56					
1R5	1.5	52								1.55							
1R7	1.7																
1R8	1.8			27.5								2.20					
2R2	2.2	72	75	31.3	22					1.20	1.32	2.04	4.6				
2R5	2.5					18									2.60		
2R7	2.7		105	43.3							1.28	1.60					
3R0	3.0						24	24							2.40	3.00	
3R3	3.3	85	110	49.2	33				20	1.10	1.04	1.57	3.4				3.50
3R9	3.9		155	64.8				27			0.88	1.44				2.60	
4R1	4.1					57								1.95			
4R2	4.2						31								2.20		
4R7	4.7	105	162	72.0	44					0.90	0.84	1.32	2.8				
5R0	5.0							31	24							2.40	2.90
5R3	5.3						38								1.90		
5R4	5.4					76								1.60			
5R6	5.6		170	100.9							0.80	1.17					
6R0	6.0							35								2.25	
6R2	6.2					96	45		27					1.40	1.80		2.50
6R3	6.3																
6R8	6.8	170	200	108.9	46					0.73	0.76	1.12	2.6				
7R3	7.3							54								2.10	
7R4	7.4								31								2.30
8R2	8.2		245	117.5			53				0.68	1.04			1.60		
8R6	8.6							58								1.85	
8R7	8.7								34								2.20
8R9	8.9					116								1.25			
100	10	210	280	128.3	150	124	65	65	38	0.55	0.61	1.00	1.8	1.20	1.30	1.70	2.00
120	12		320	131.6		153	76	70	53		0.56	0.84		1.10	1.20	1.55	1.70
150	15	295	360	149.0	210	196	103	84	57	0.45	0.50	0.76	1.6	0.97	1.10	1.40	1.60
180	18		400	166.0		210	110	95	92		0.48	0.72		0.85	1.00	1.32	1.50
220	22	430	480	235.0	270	290	122	128	96	0.40	0.41	0.70	1.4	0.80	0.90	1.20	1.30
270	27		570	261.0		330	175	142	109		0.35	0.58		0.75	0.85	1.05	1.20
330	33	675	694	331.3		386	189	165	124	0.32	0.32	0.56		0.65	0.75	0.97	1.10
390	39		800	383.7		520	212	210	138		0.30	0.50		0.57	0.70	0.86	1.00
470	47		950	587.0		595	250	238	150		0.28	0.48		0.54	0.62	0.80	0.95
560	56		1080	624.5		665	305	277	202		0.26	0.41		0.50	0.58	0.73	0.85
680	68		1300	699.0		840	355	304	234		0.24	0.35		0.43	0.52	0.65	0.75
820	82			914.8		978	463	390	324			0.32		0.41	0.46	0.60	0.70
101	100			1020		1200	520	535	358			0.29		0.36	0.42	0.54	0.65
121	120			1270								0.27					
151	150			1350								0.24					
181	180			1540								0.22					



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SMD Shielded Power Inductors - SCDS Series

Test Freq. (L): SCDS 3D16(100KHz/ 0.1V) , 4D28/ 4D40 (100KHz/ 1V) , SCDS 5D18/ 5D28/ 6D28/ 6D38 (10KHz/ 1V)
 SCDS 127: 1.2~7.6 μ H (100KHz/ 1V) 10~1000 μ H (1KHz /1V)
 SCDS 4D18: 1.0~8.2 μ H (7.96MHz/ 1V), 10~39 μ H (100KHz/ 1V)

Other type: Rated current: The rated current indicates the current when the inductance decrease to 65%. Over of it's nominal value or D.C. current when the temperature rising $\Delta t=40^{\circ}\text{C}$ lower, whichever is lower.

Test Instrument: L: Agilent/ E4980 or HP4284A (over 1MHz), HP4285A (under 1MHz)

RDC: CH502BC

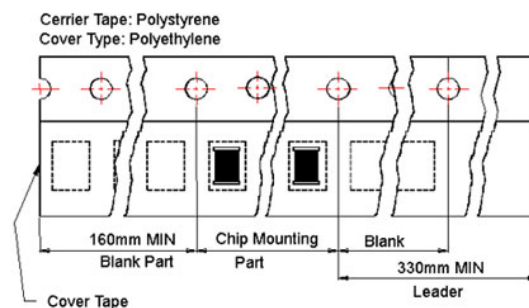
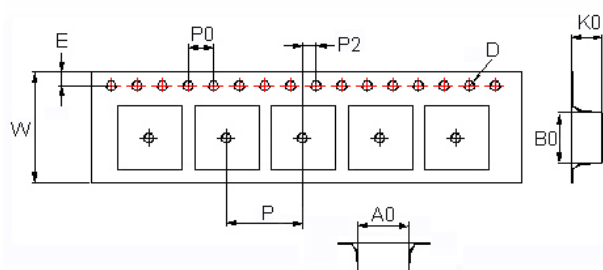
Rated Current: HP4284+42841A or WK3260B+WK3265B

Tolerance Of Inductors

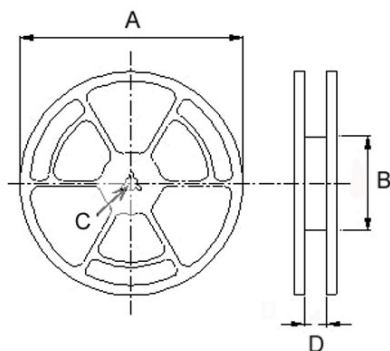
- SCDS 3D16 1.5 ~ 33 μ H $\pm 30\%$
- SCDS 4D18 1.0 ~ 68 μ H $\pm 30\%$
- SCDS 4D28 1.2 ~ 180 μ H $\pm 30\%$
- SCDS 4D40 2.2 ~ 22 μ H $\pm 30\%$
- SCDS 5D18 4.1 ~ 100 μ H $\pm 30\%$
- SCDS 5D28 2.5 ~ 100 μ H $\pm 30\%$
- SCDS 6D28 3.0 ~ 100 μ H $\pm 30\%$
- SCDS 6D38 3.3 ~ 100 μ H $\pm 30\%$
- Tolerance : M = $\pm 20\%$, T = $\pm 30\%$, N = $^{+40}_{-20}\%$

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

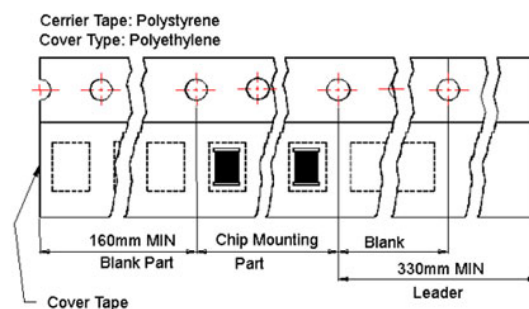
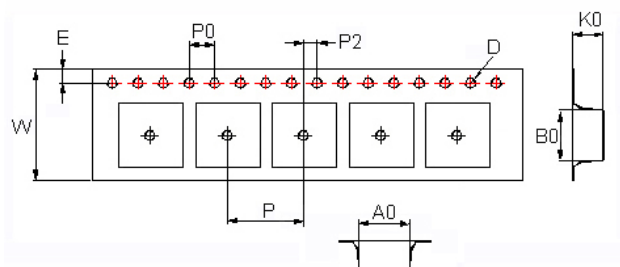
TYPE	Tape Dimensions										Reel Dimensions				Quantity PCS / REEL
	A0	B0	K0	D	E	W	P	P0	P2		A	B	C	D	
SCDS 3D16	4.1	4.1	2.0	1.5	1.75	12	8	4	2		178	60	13	13.2	1000
SCDS 4D18	5.3	5.3	2.4	1.5	1.75	12	8	4	2		330	100	13	13.4	2000
SCDS 4D28	5.3	5.3	3.4	1.5	1.75	12	8	4	2		330	100	13	13.4	2000
SCDS 4D40	5.35	5.35	4.1	1.55	1.75	12	8	4	2		330	100	13	13.4	1000
SCDS 5D18	6.2	6.2	2.2	1.5	1.75	12	8	4	2		330	100	13	13.4	2000
SCDS 5D28	6.2	6.2	3.2	1.5	1.75	12	8	4	2		330	100	13	13.4	2000
SCDS 6D28	7.25	7.25	3.35	1.55	1.75	16	12	4	2		330	100	13	17.4	1500
SCDS 6D38	7.1	7.1	4.1	1.55	1.75	16	12	4	2		330	100	13	17.4	1000



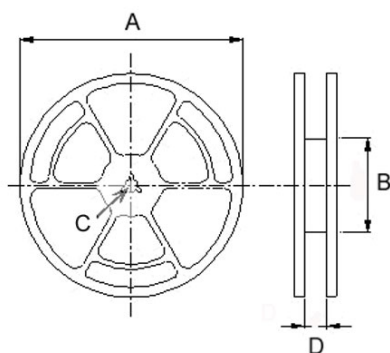
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Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions										Reel Dimensions				Quantity PCS / REEL
	A0	B0	K0	D	E	W	P	P0	P2		A	B	C	D	
SCDS 3D16	4.1	4.1	2.0	1.5	1.75	12	8	4	2		178	60	13	13.2	1000
SCDS 4D18	5.3	5.3	2.4	1.5	1.75	12	8	4	2		330	100	13	13.4	2000
SCDS 4D28	5.3	5.3	3.4	1.5	1.75	12	8	4	2		330	100	13	13.4	2000
SCDS 4D40	5.35	5.35	4.1	1.55	1.75	12	8	4	2		330	100	13	13.4	1000
SCDS 5D18	6.2	6.2	2.2	1.55	1.75	16	12	4	2		330	100	13	13.4	1500
SCDS 5D28	6.2	6.2	3.1	1.55	1.75	16	12	4	2		330	100	13	17.4	1500
SCDS 6D28	7.25	7.25	3.35	1.55	1.75	16	12	4	2		330	100	13	17.4	1500
SCDS 6D38	7.1	7.1	4.1	1.55	1.75	16	12	4	2		330	100	13	17.4	1000