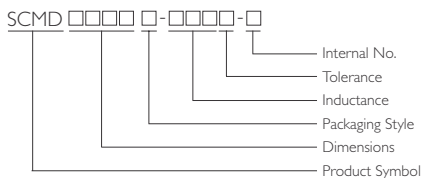


SMD Unshielded Power Inductors

SCMD Series



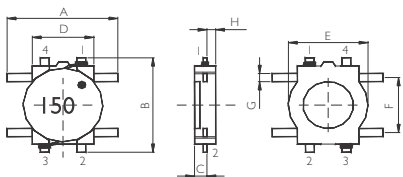
PRODUCT IDENTIFICATION



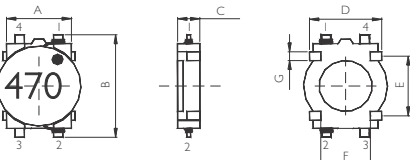
- Packaging: T: Tape and Reel
- Tolerance: M±20%
- Note: YAGEO will start to release SCMD Series inductors with lead-free terminals that meet SONY SS-00259's criteria for lead-free product in Q2 of 2004, and YAGEO Internal No. will be changed to "N" as identification. Ex.: SCMD4D06T-2R2

SHAPES AND DIMENSIONS

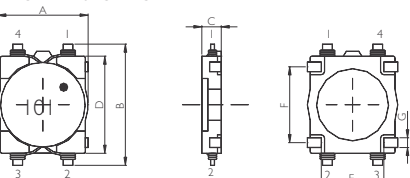
SCMD 4D06 & 4D08



SCMD 4D11 & 4D13



SCMD 5D11 & 5D13



SCMD Series

Low DC Resistance & For Large Current Applications

Applications

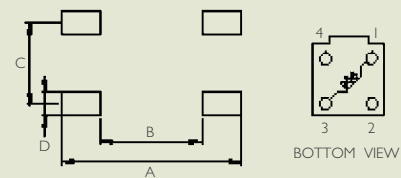
- power supply for VTRs.
- OA equipment.
- LCD televisions.
- Notebook PCs.
- Portable communication equipment.
- DC / DC converters, etc.

Features

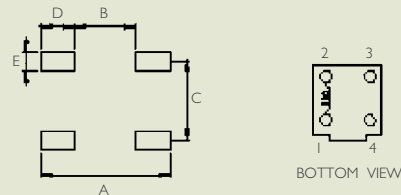
- Available in magnetically shielded.
- Low DC resistance.
- Suitable for large currents.
- Ideal for a variety of DC - Dc converter inductor applications.
- Available on tape and reel for auto surface mounting

Recommended Pattern

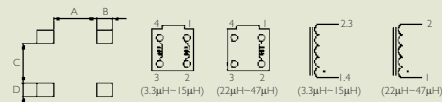
SCMD 4D06 & 4D08



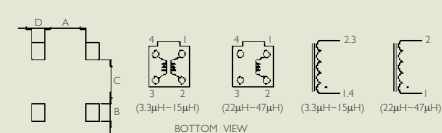
SCMD 4D11 & 4D13



SCMD 5D11



SCMD 5D13



SHAPES AND DIMENSIONS

Dimensions : mm

TYPE	Dimensions : mm								TYPE	Dimensions : mm				
	A Max	B Max	C Max	D	E	F	G	H		A	B	C	D	E
SCMD4D06	6.3	5.8	0.8	3.5	4.1	3.2	0.5	0.4	SCMD4D06	7	4	3.2	0.9	
SCMD4D08	6.3	5.8	1.0	3.5	4.1	3.2	0.5	0.4	SCMD4D08	7	4	3.2	0.9	
SCMD4D11	4.4	5.8	1.25	3.7	3.2	2.9	0.5		SCMD4D11	5.3	2.5	3.2	1.4	0.8
SCMD4D13	4.4	5.8	1.45	3.7	3.2	2.9	0.5		SCMD4D13	5.3	2.5	3.2	1.4	0.8
SCMD5D11	5.8	7.4	1.2	6.0	4.2	4.5	0.6		SCMD5D11	3.6	1.4	3.4	1.1	
SCMD5D13	5.8	7.4	1.5	6.0	4.2	4.5	0.6		SCMD5D13	3.6	1.4	3.6	1.1	

Recommended Pattern

Dimensions : mm



STANDARD SPECIFICATIONS

Stamp	Inductance (μ H)	D.C.R(Ω) Max.						Rated D.C. Current(A)					
		SCMD 4D06	SCMD 4D08	SCMD 4D11	SCMD 4D13	SCMD 5D11	SCMD 5D13	SCMD 4D06	SCMD 4D08	SCMD 4D11	SCMD 4D13	SCMD 5D11	SCMD 5D13
2R2	2.2	0.116		0.116				0.95		0.95			
3R3	3.3	0.174	0.160	0.174	0.160	0.109	0.081	0.77	0.85	0.77	0.85	0.94	1.25
4R7	4.7	0.216	0.194	0.216	0.194	0.156	0.106	0.75	0.80	0.75	0.80	0.80	1.20
6R8	6.8	0.296	0.276	0.296	0.276	0.216	0.144	0.62	0.65	0.62	0.65	0.65	0.90
100	10	0.457	0.335	0.457	0.335	0.275	0.187	0.50	0.57	0.50	0.57	0.54	0.85
150	15	0.676	0.508	0.676	0.508	0.438	0.300	0.40	0.45	0.40	0.45	0.40	0.57
220	22	1.066	0.766	1.066	0.766	0.663	0.431	0.30	0.37	0.30	0.37	0.36	0.54
330	33	1.647	1.162	1.647	1.162	0.975	0.637	0.24	0.28	0.24	0.28	0.32	0.28
470	47	2.843	1.658	2.843	1.658	1.38	0.875	0.18	0.22	0.18	0.22	0.26	0.35
680	68		2.534		2.534	1.70			0.18		0.18	0.23	
101	100		3.800		3.800	2.80			0.17		0.17	0.20	
151	150				5.362						0.13		

• Measuring Frequency (L) : 100KHz

• Tolerance of Inductance: $\pm 20\%$ (M)

• Rated D.C Current (SCMD4D06/4D08/4D11/4D13/5D11)

This indicates the value of current when the inductance is 10% lower than its initial value at D.C superposition or D.C current when at $\Delta t=40^{\circ}\text{C}$ whichever is lower.

• Rated D.C Current (SCMD5D13)

This indicates the value of current when the inductance is 65% more than its nominal value and the temperature is rising at $\Delta t=40^{\circ}\text{C}$ lower at D.C superposition.

• Test Equipment:

L: HP4192. LF Impedance Analyzer or HP4284A.

DCR: CHEN HWA 502

Rared dc Current: HP4284A+HP42841A