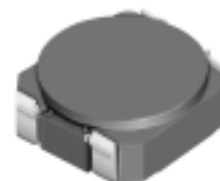


Type: CLS4D28B

Under Development

◆ Description

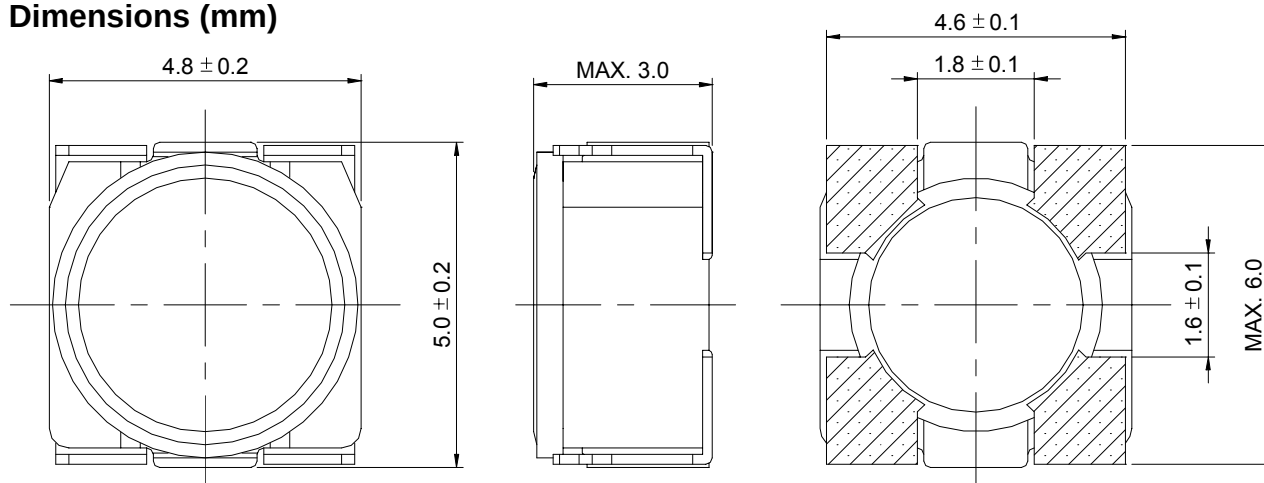
- 4 Terminal pins' type gives a flexible design as inductors or transformers.
- Can also be used as a coupled inductor, two single inductors connected in parallel, as 1:1 transformer or as an autotransformer when connected in series.
- Core material: Ferrite.
- Custom design is available.



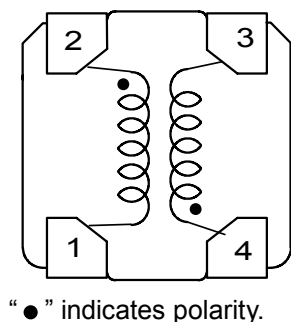
◆ Feature

- Max. Operating frequency: 1MHz.
- 2 in 1 Coils for high efficiency up-down DC-DC converters.(SEPIC, Zeta, Cuk converter).
- Storage temperature range: -40°C~+105°C.
- Operating temperature range: -40°C~+105°C (including coil's self-heat).
- Product weight: 230mg(Ref.).
- Ideally used in the power supply for DSC, Note PC, DVC and W-LED backlighting.
- RoHS Compliance.

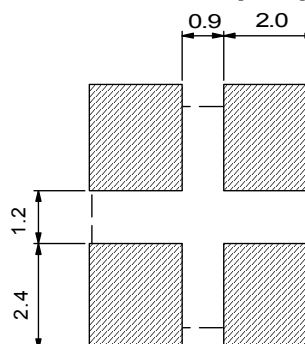
◆ Dimensions (mm)



◆ Schematics (Bottom)

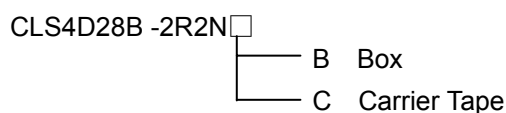


◆ Land Pattern (mm)



Type: CLS4D28B
◆ Specification

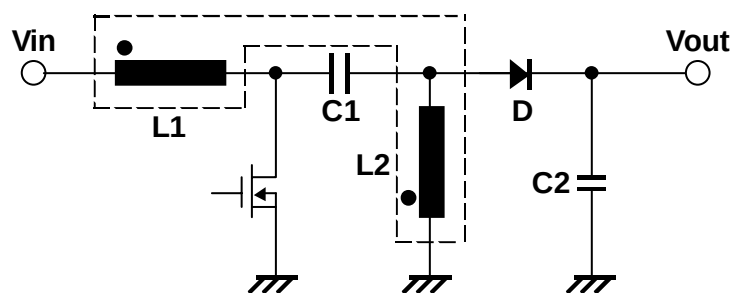
Part No.	Stamp	Inductance [Within]	D.C.R. [Max.] (mΩ) (at 20°C)※1		Saturation Current (A) ※2				Temperature Rise current (A) ※3	
			(2-1)	(4-3)	In parallel		In series		In parallel	In series
					at 20°C	at 100°C	at 20°C	at 100°C		
CLS4D28B-2R2N□	A	2.2μH±30%	48(37)	58(44)	1.60	1.28	0.88	0.72	2.88	1.44
CLS4D28B-3R5N□	B	3.5μH±30%	74(57)	89(69)	1.34	1.40	0.64	0.50	2.26	1.14
CLS4D28B-5R2N□	C	5.2μH±30%	100(77)	123(95)	1.02	0.86	0.52	0.42	1.89	0.95
CLS4D28B-6R8N□	D	6.8μH±30%	132(102)	162(125)	0.92	0.74	0.44	0.38	1.66	0.78
CLS4D28B-100N□	E	10μH±30%	152(117)	190(146)	0.80	0.68	0.38	0.34	1.54	0.72
CLS4D28B -150 N□	F	15μH±30%	260(200)	318(244)	0.62	0.54	0.32	0.26	1.05	0.54
CLS4D28B -220N□	G	22μH±30%	320(246)	405(311)	0.50	0.46	0.26	0.22	1.03	0.45
CLS4D28B -330N□	H	33μH±30%	535(413)	470(514)	0.42	0.34	0.22	0.18	0.77	0.37
CLS4D28B -470N□	J	47μH±30%	650(500)	820(631)	0.37	0.33	0.18	0.14	0.72	0.31

※ Description of Part Name


※1. () typical value.

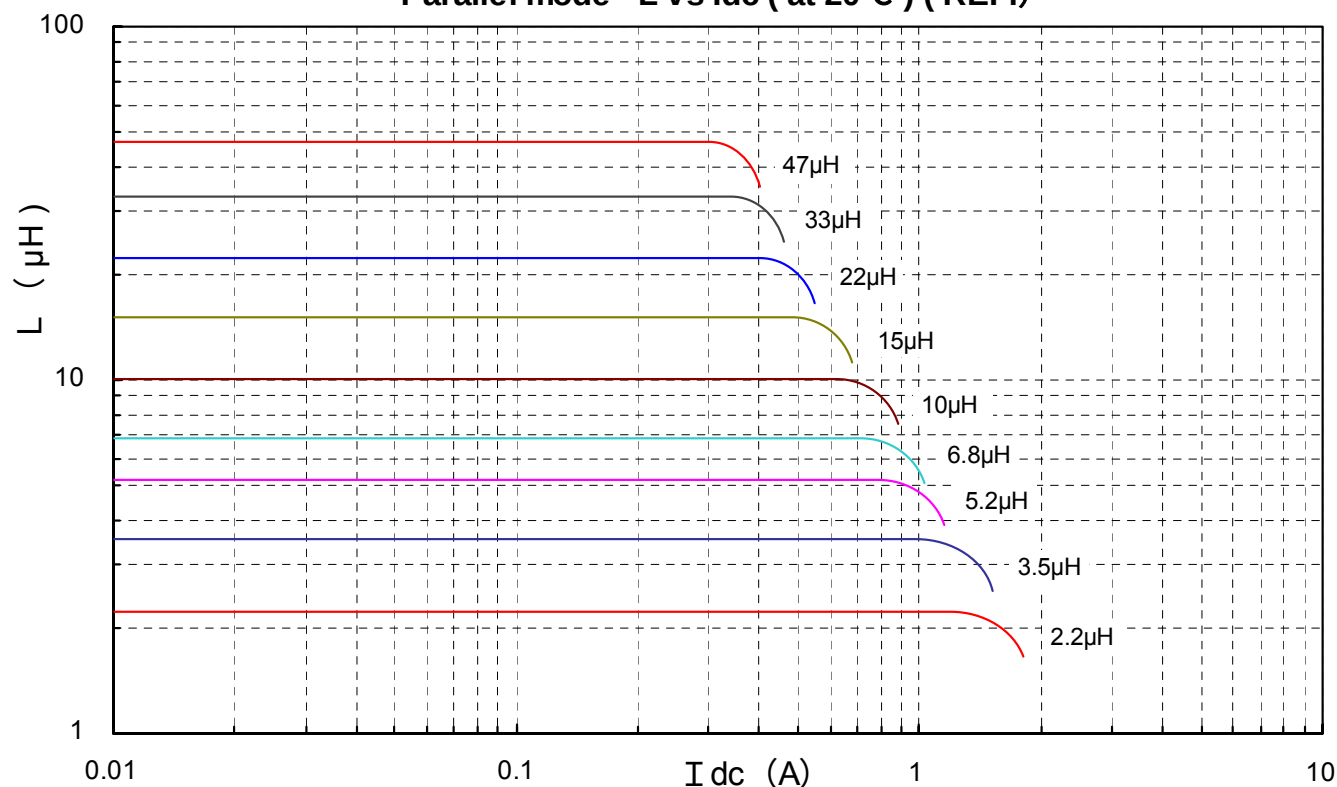
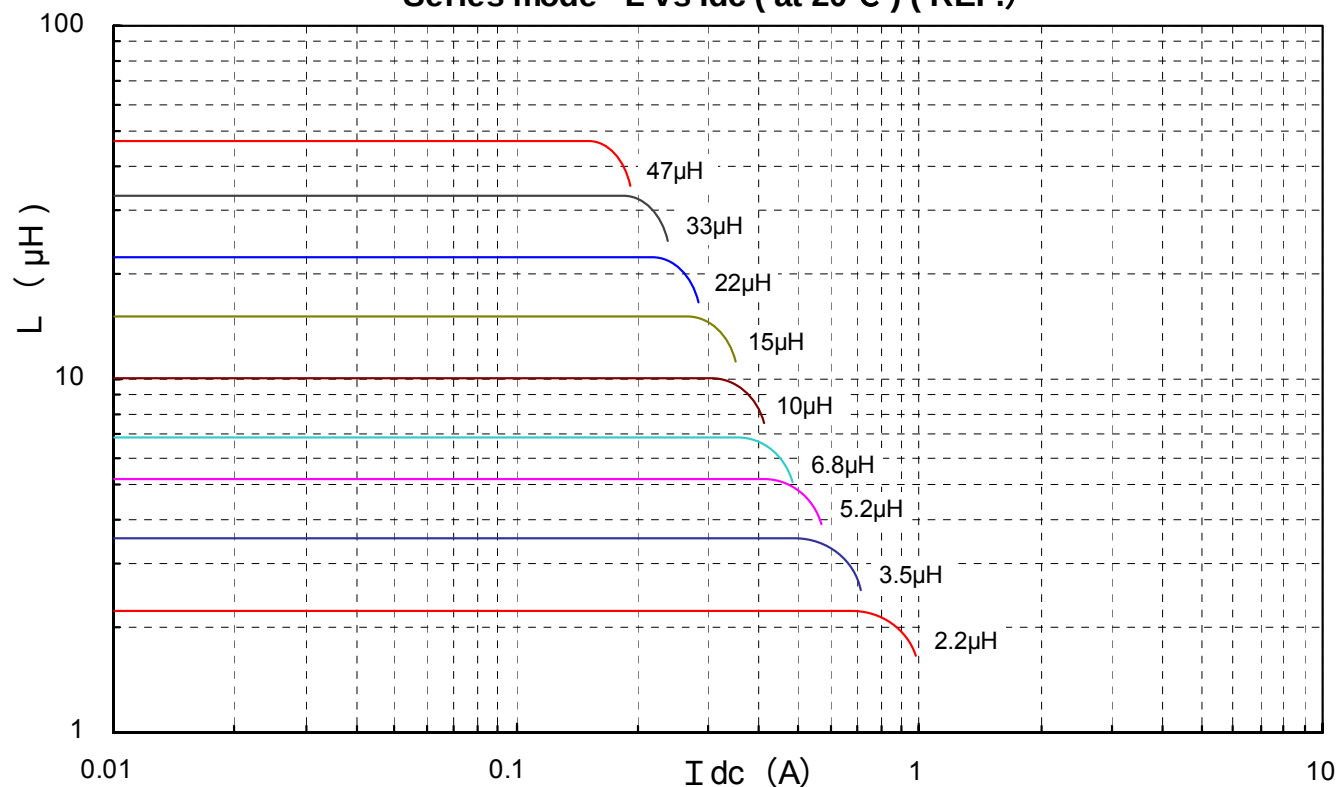
※2. Saturation Current: The DC current at which the inductance decreases to 90% of it's nominal value.

※3. Temperature rise current: The DC current at which the temperature rise is $\Delta t=40^{\circ}\text{C}$. ($T_a=20^{\circ}\text{C}$).

◆ Typical SEPIC Schematic


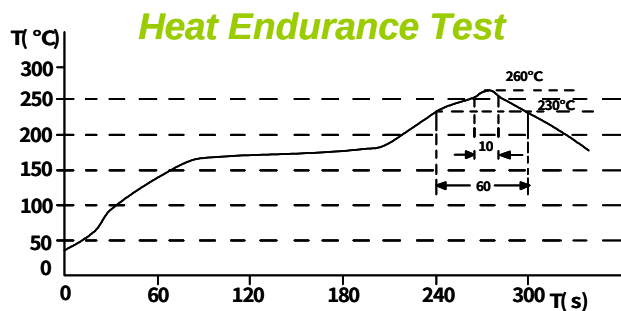
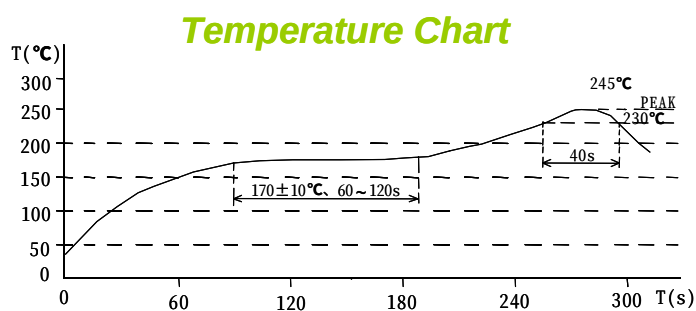
Type: CLS4D28B

◆ Typical L Vs Current

Parallel mode L vs I_{dc} (at 20°C) (REF.)

Series mode L vs I_{dc} (at 20°C) (REF.)


Type: CLS4D28B

◆ Recommendation Reflow Condition



◆ Packaging with Embossed Tape and reel

Qty.: 2000pcs/reel

