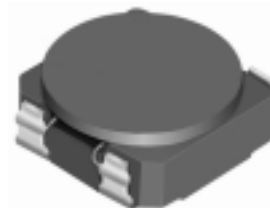


Type: CLS6D28

◆ Description

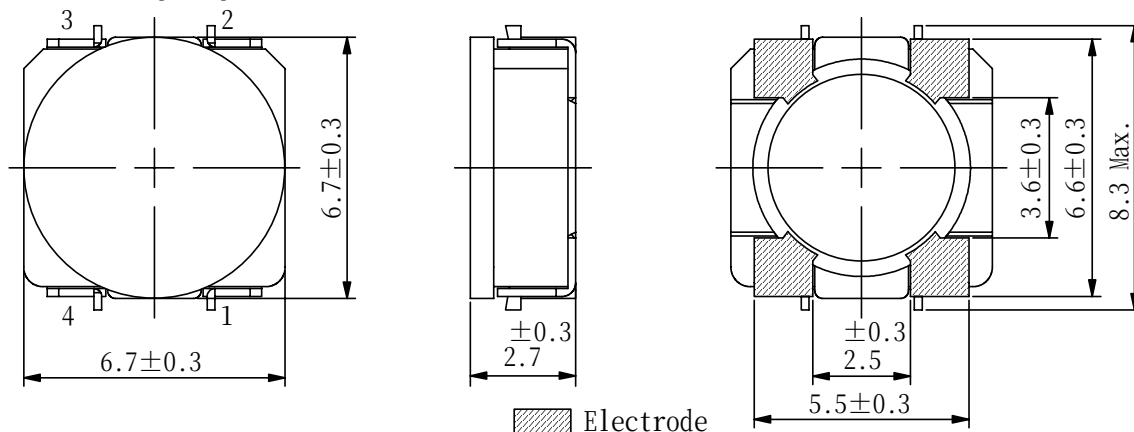
- 4 Terminal pins' type gives a flexible design as inductors or transformers.
- Can also be used as a coupled inductor, two single inductors connected in parallel, as 1:1 transformer or as an autotransformer when connected in series.
- Core material: Ferrite.
- Custom design is available.



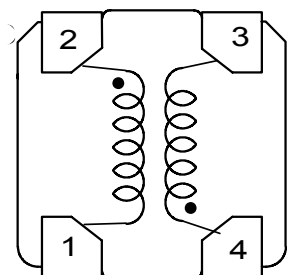
◆ Feature

- 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: 520mg(Ref.).
- Ideally used in the power supply for DSC, Note PC, DVC and W-LED backlighting.
- RoHS Compliance.

◆ Dimensions (mm)

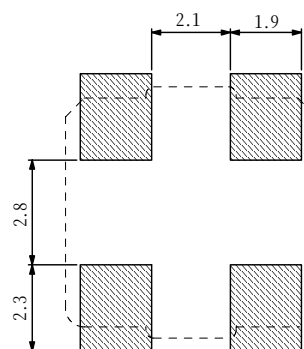


◆ Schematics (Bottom)



“●” indicates polarity.

◆ Land Pattern (mm)

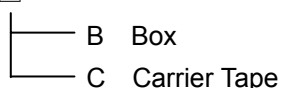


Type: CLS6D28
◆ Specification

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		
CLS6D28NP-1R2N□	1R2	1.2μH±35%	21(16)	25(19)	4.00	3.00	2.00	1.40	4.40	2.40
CLS6D28NP-1R8N□	1R8	1.8μH±35%	26(20)	31(24)	3.30	2.50	1.60	1.20	4.00	2.20
CLS6D28NP-2R5N□	2R5	2.5μH±30%	31(24)	36(28)	2.70	2.10	1.35	1.00	3.60	2.00
CLS6D28NP-3R3N□	3R3	3.3μH±30%	35(27)	46(35)	2.40	1.80	1.20	0.90	3.20	1.60
CLS6D28NP-4R7N□	4R7	4.7μH±30%	47(36)	63(48)	2.10	1.60	1.05	0.80	2.40	1.20
CLS6D28NP-6R8N□	6R8	6.8μH±30%	78(60)	98(75)	1.70	1.30	0.85	0.70	2.00	0.95
CLS6D28NP-100N□	100	10μH±30%	100(75)	125(95)	1.44	1.05	0.72	0.55	1.80	0.85
CLS6D28NP-150N□	150	15μH±30%	145(110)	180(140)	1.15	0.90	0.58	0.45	1.40	0.70
CLS6D28NP-220N□	220	22μH±30%	275(210)	340(260)	0.92	0.65	0.45	0.36	1.10	0.52
CLS6D28NP-330N□	330	33μH±30%	340(260)	430(330)	0.75	0.54	0.38	0.28	0.95	0.42
CLS6D28NP-470N□	470	47μH±30%	545(420)	690(530)	0.63	0.44	0.32	0.24	0.80	0.36
CLS6D28NP-680N□	680	68μH±30%	650(500)	845(650)	0.53	0.38	0.27	0.20	0.72	0.32
CLS6D28NP-101N□	101	100μH±30%	1090(840)	1375(1060)	0.44	0.32	0.22	0.18	0.60	0.27
CLS6D28NP-121N□	121	120μH±30%	1200(930)	1500(1200)	0.40	0.28	0.19	0.15	0.54	0.24

※ Description of Part Name

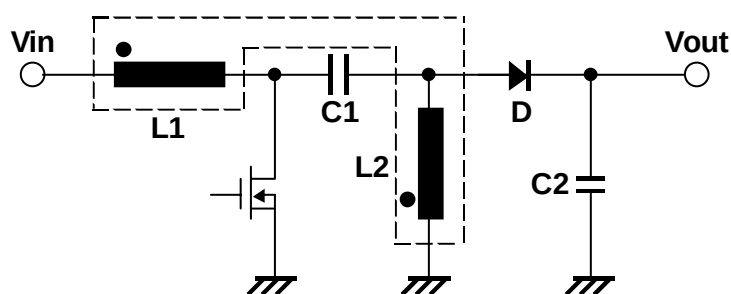
CLS6D28NP -1R2N□



※1. () typical value.

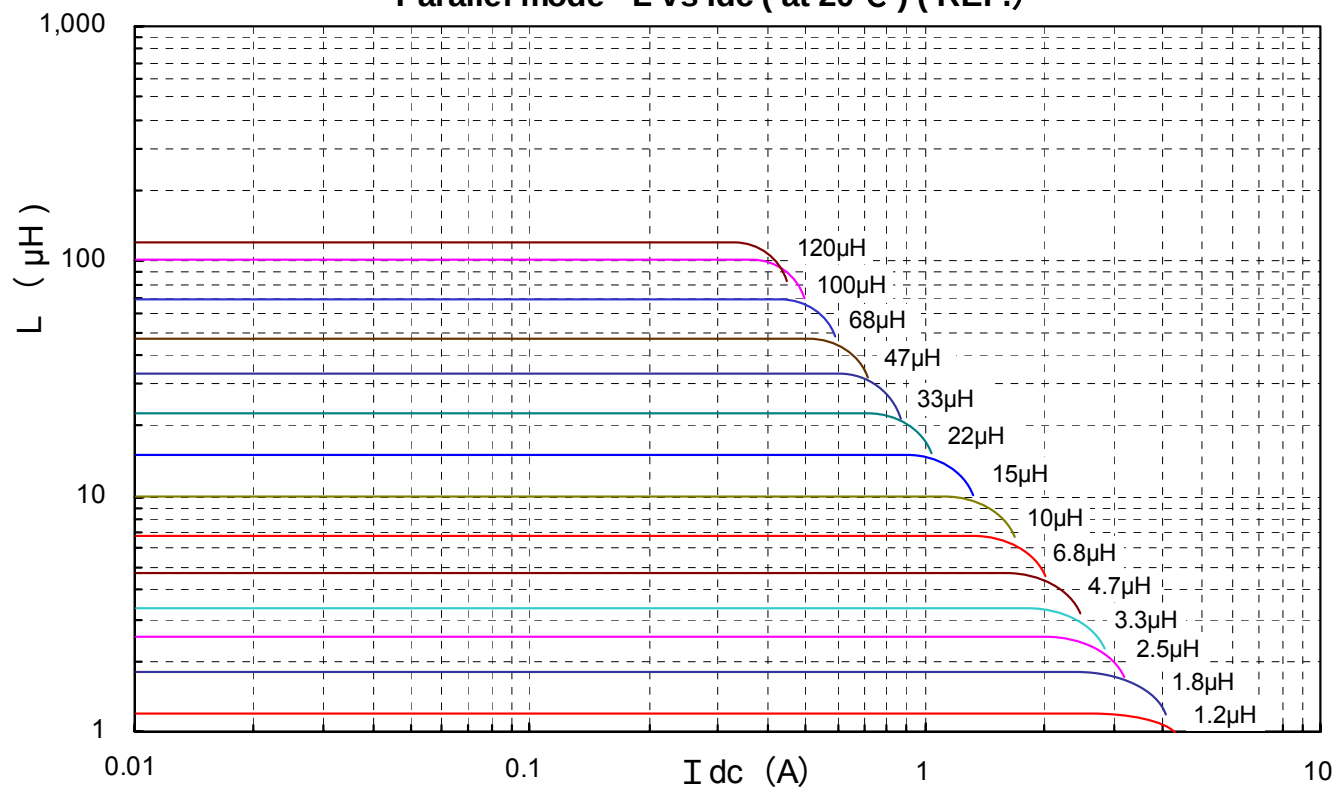
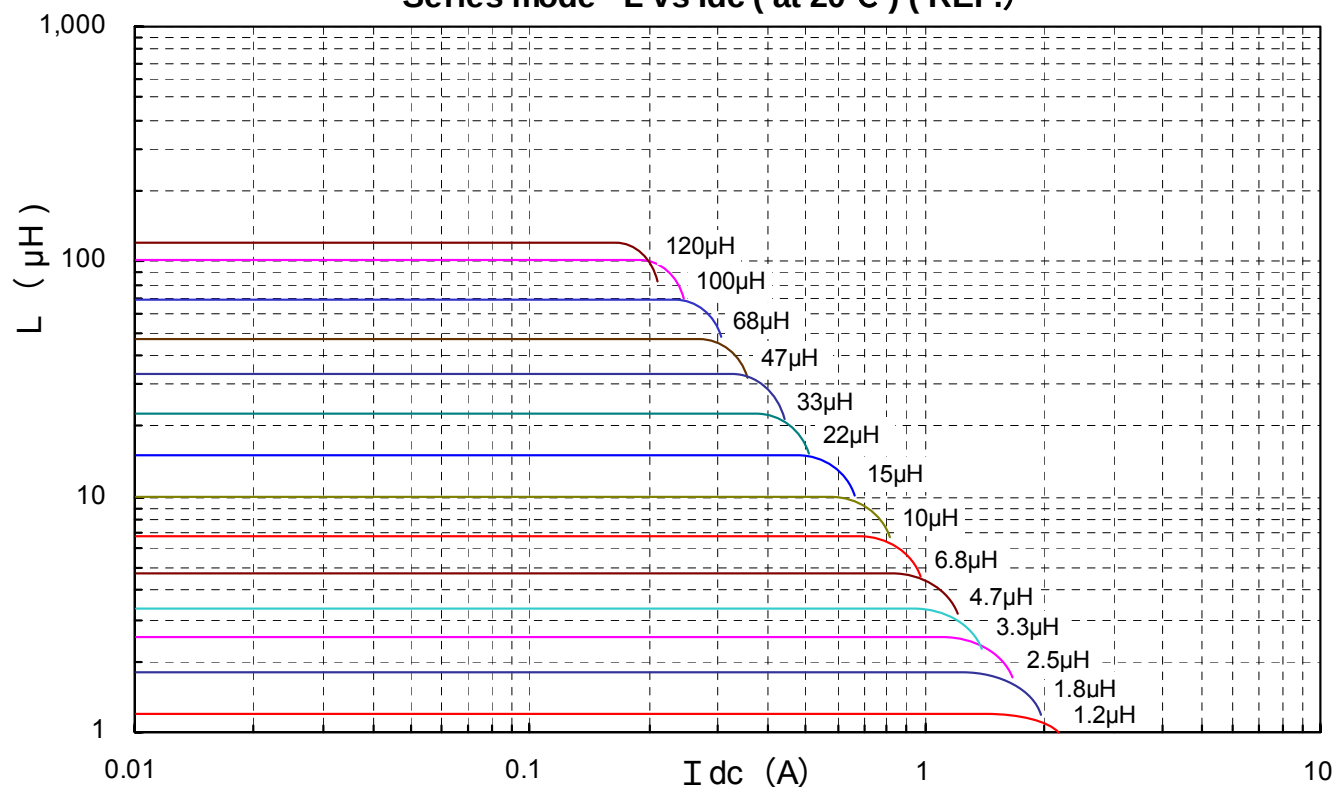
※2. Saturation Current: The DC current at which the inductance decreases to 90% of it's nominal value.

 ※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


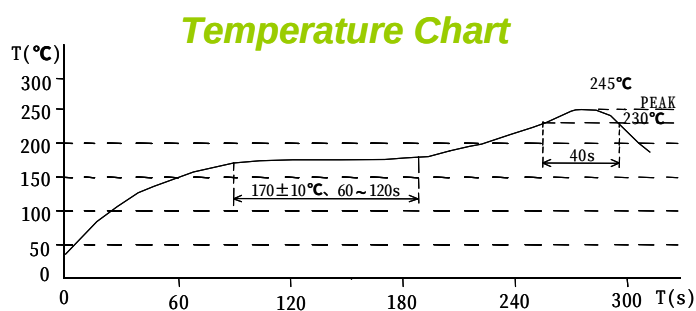
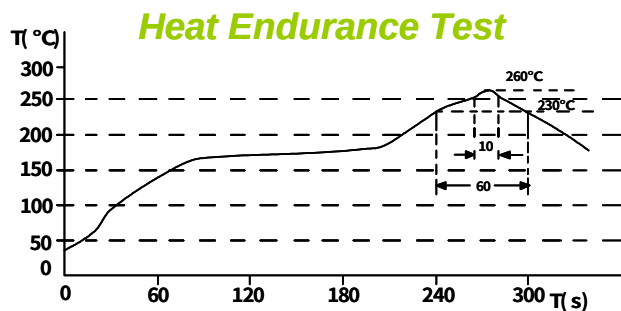
Type: CLS6D28

◆ Typical L Vs Current

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

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


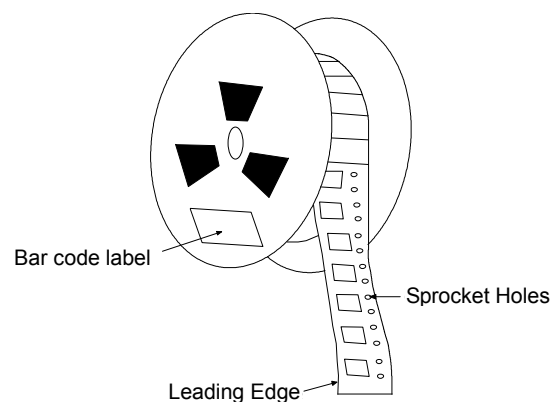
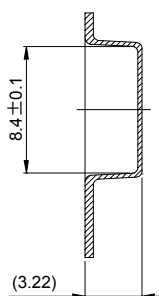
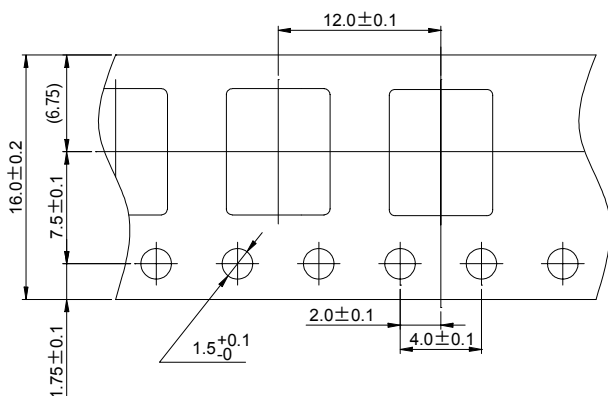
Type: CLS6D28

◆ Recommendation Reflow Condition



◆ Packaging with Embossed Tape and Reel

Qty.: 1500pcs/reel



Mouser Electronics

Authorized Distributor

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Sumida:

[CLS6D28NP-220NC](#) [CLS6D28NP-4R7NC](#) [CLS6D28NP-2R5NC](#) [CLS6D28NP-1R2NC](#) [CLS6D28NP-150NC](#)
[CLS6D28NP-330NC](#) [CLS6D28NP-100NC](#) [CLS6D28NP-470NC](#) [CLS6D28NP-121NC](#) [CLS6D28NP-101NC](#)
[CLS6D28NP-680NC](#) [CLS6D28NP-1R8NC](#) [CLS6D28NP-6R8NC](#) [CLS6D28NP-3R3NC](#)