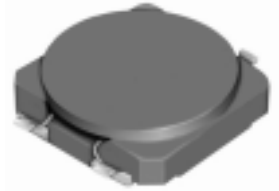
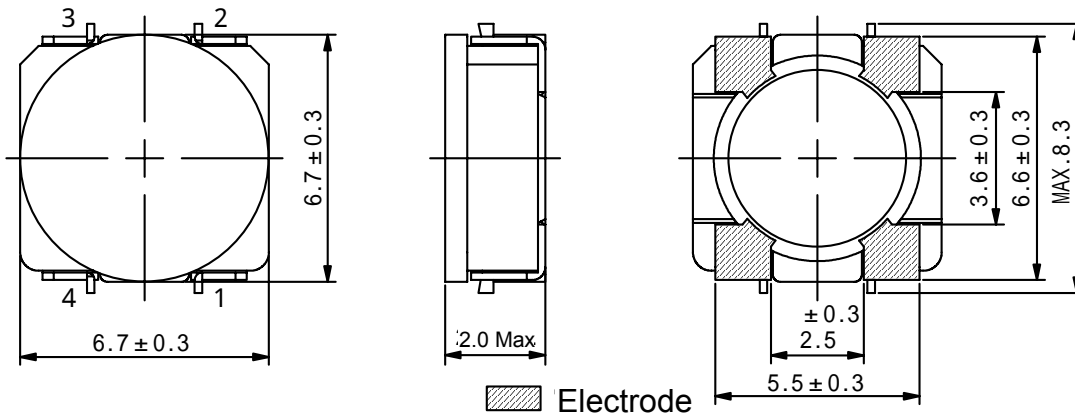
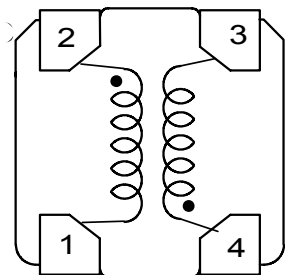


Type: CLS6D18
Under Development
Description

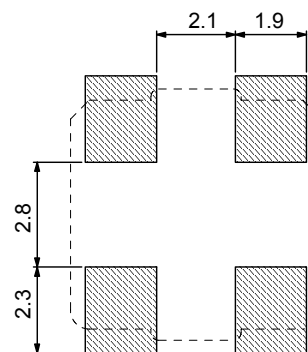
- 4 Terminal pins' type gives a flexible design as inductors or transformers.
- Can also be used as a coupled inductor, two single inductors connected in parallel, as 1:1 transformer or as an autotransformer when connected in series.
- Core material: Ferrite.
- Custom design is available.


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 ~+105 .
- Operating temperature range: -40 ~+105 (including coil's self-heat).
- Product weight: 240mg(Ref.).
- Ideally used in the power supply for DSC, Note PC, DVC and W-LED backlighting.
- RoHS Compliance.

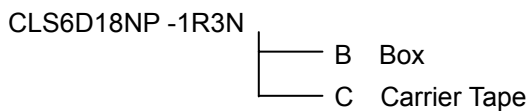
Dimensions (mm)

Schematics (Bottom)


“●” indicates polarity.

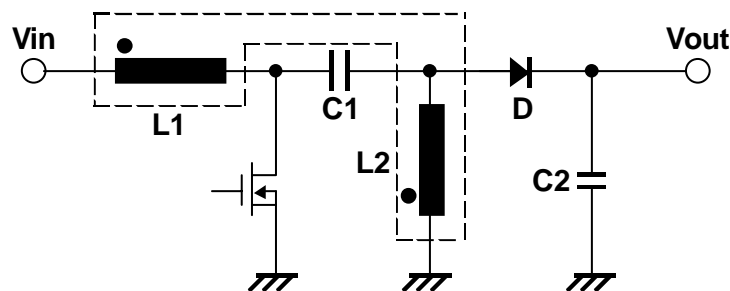
Land Pattern (mm)


Type: CLS6D18
Specification

Part No.	Stam p	Inductance [Within]	D.C.R. [Max.] (m)		Saturation Current (A) 2				Temperature Rise current (A) 3	
			(at 20) 1		In parallel		In series		In parallel	In series
			(2-1)	(4-3)	at 20	at 100	at 20	at 100		
CLS6D18NP-1R3N	1R3	1.3μH±30%	35(29)	43(36)	2.69	2.02	1.34	1.01	1.70	0.81
CLS6D18NP-1R9N	1R9	1.9μH±30%	41(34)	57(47)	2.20	1.65	1.17	0.88	1.58	0.75
CLS6D18NP-2R6N	2R6	2.6μH±30%	52(43)	69(57)	1.96	1.46	0.97	0.73	1.45	0.69
CLS6D18NP-3R5N	3R5	3.5μH±30%	71(59)	92(76)	1.72	1.29	0.77	0.58	1.20	0.57
CLS6D18NP-4R7N	4R7	4.7μH±30%	83(69)	112(93)	1.43	1.07	0.70	0.53	1.05	0.50
CLS6D18NP-6R8N	6R8	6.8μH±30%	129(107)	168(140)	1.20	0.90	0.58	0.44	0.81	0.38
CLS6D18NP-100N	100	10μH±30%	155(129)	216(180)	0.98	0.74	0.49	0.37	0.75	0.36
CLS6D18NP-150N	150	15μH±30%	246(205)	360(300)	0.90	0.68	0.38	0.29	0.55	0.26
CLS6D18NP-220N	220	22μH±30%	404(337)	606(505)	0.63	0.47	0.30	0.23	0.35	0.17

Description of Part Name


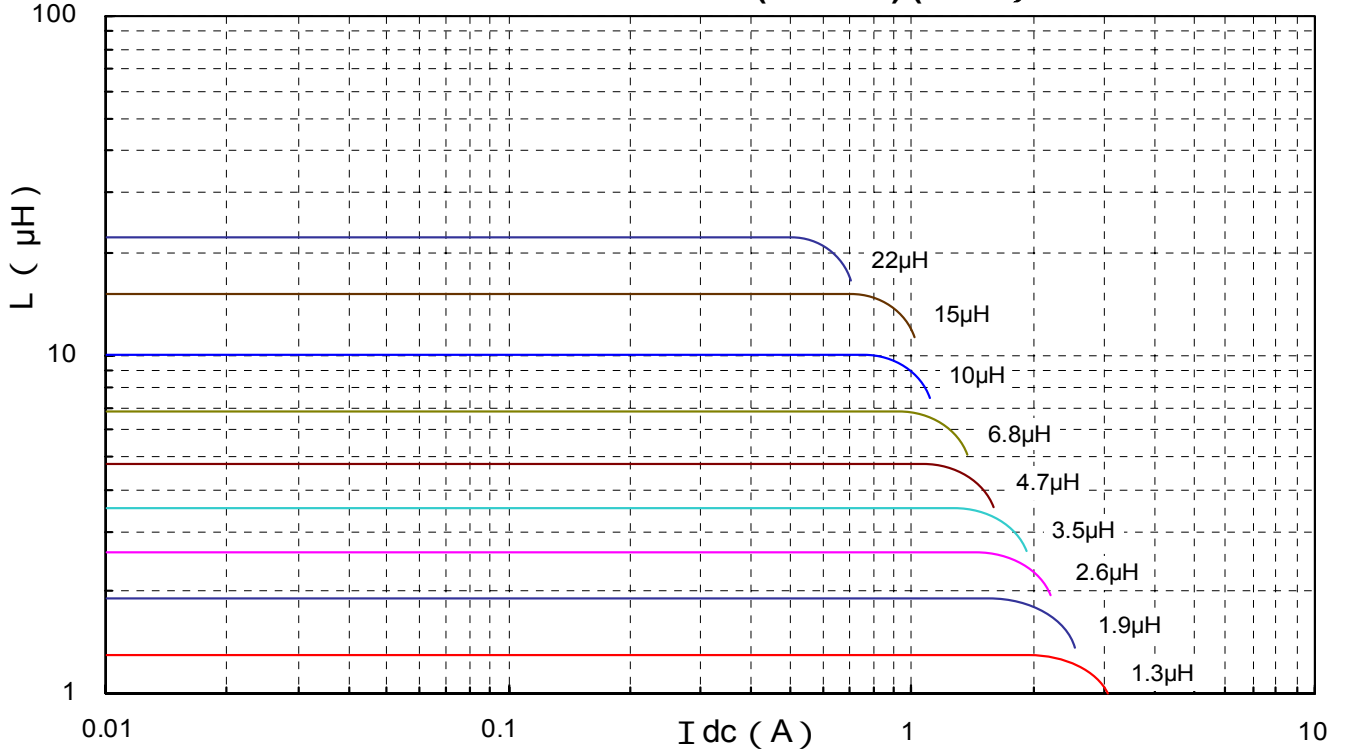
1. () typical value.
2. Saturation Current: The DC current at which the inductance decreases to 90% of it's nominal value.
3. Temperature rise current: The DC current at which the temperature rise is $t = 40$.($T_a = 20$).

Typical SEPIC Schematic


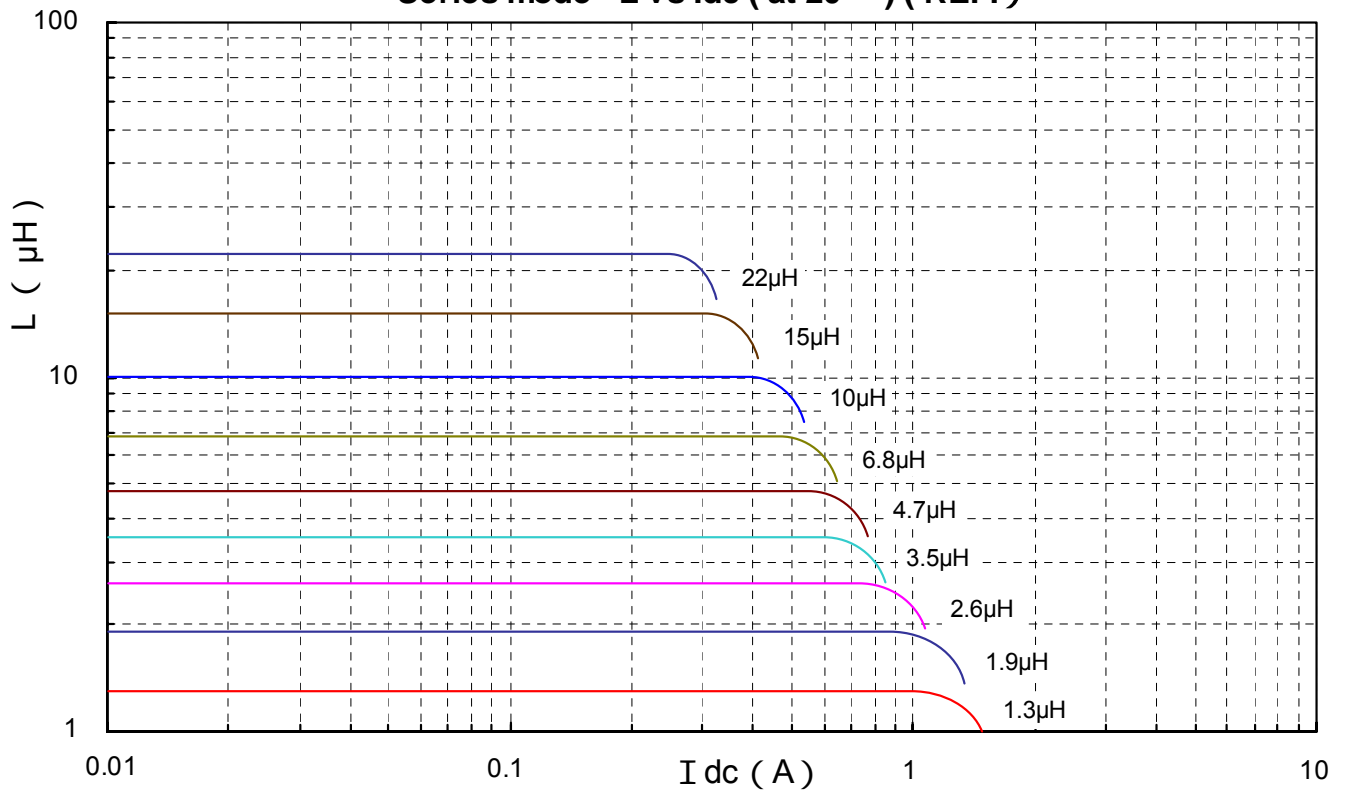
Type: CLS6D18

Typical L Vs Current

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



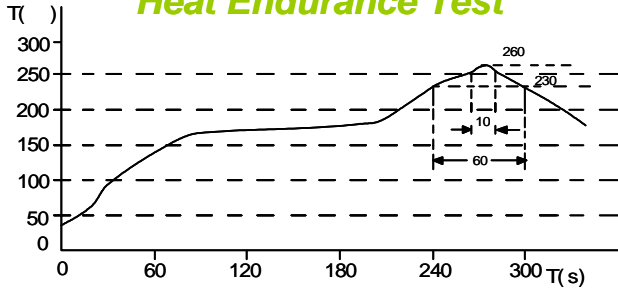
Series mode L vs I_{dc} (at 20 °C) (REF.)



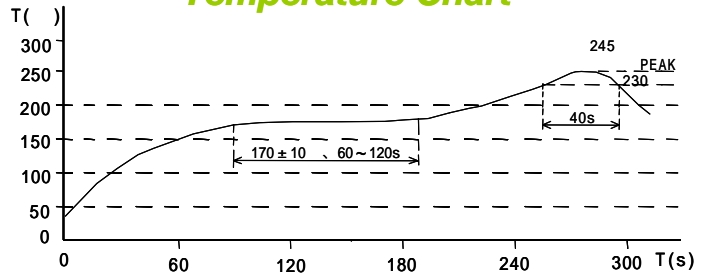
Type: CLS6D18

Recommendation Reflow Condition

Heat Endurance Test



Temperature Chart



Packaging with Embossed Tape and Reel

Qty.: 2000pcs/reel

