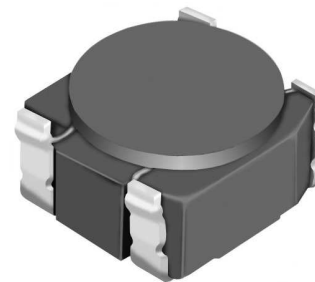


Type: CLS127

Under Development

◆ Product Description

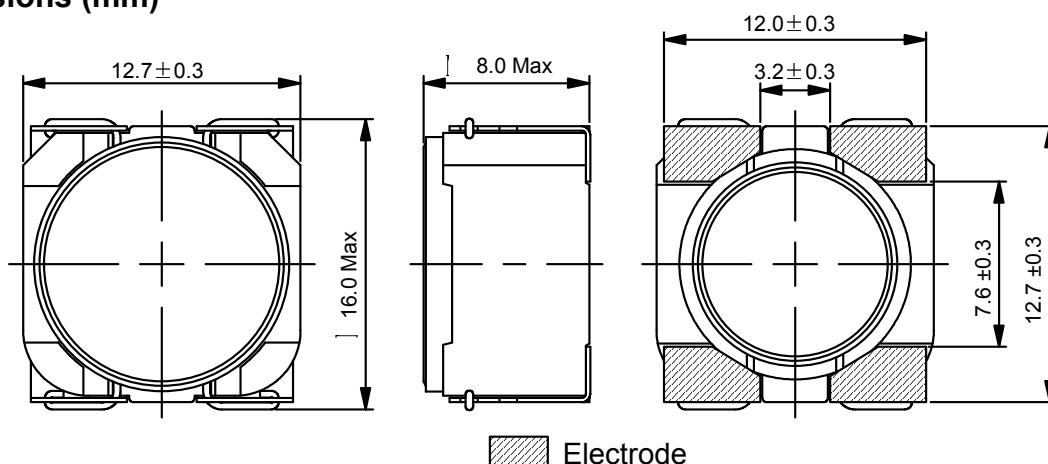
- 4 Terminal pins' type gives a flexible design as inductors or transformers.
- Can also be used as a coupled inductor, two single inductors connected in parallel, as 1:1 transformer or as an autotransformer when connected in series.
- Core material: Ferrite.
- Custom design is available.



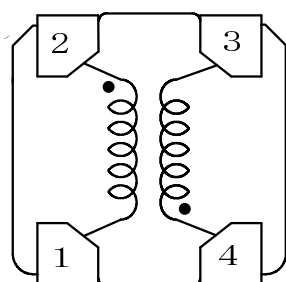
◆ Feature

- 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: 4.8g(Ref.).
- Ideally used in the power supply for DSC、Note PC、DVC and W-LED backlighting.
- RoHS Compliance.

◆ Dimensions (mm)

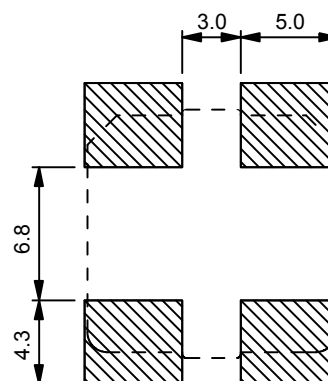


◆ Schematics (Bottom)



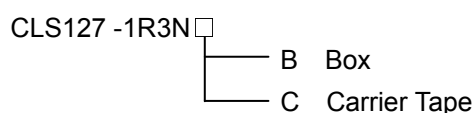
“●” indicates polarity.

◆ Land Pattern (mm)



Type: CLS127
◆ Specification

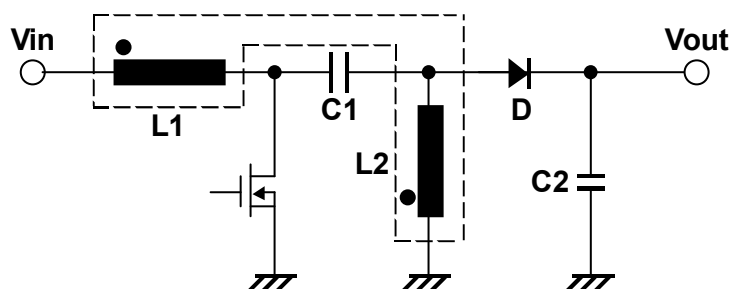
Part No.	Stamp	Inductance (μH)	D.C.R. ($\text{m}\Omega$) [Max.] Typ. (at 20°C) ※1		Saturation Current (A) ※2				Temperature Rise Current (A) ※3	
					In parallel		In series		In parallel	In series
			(2-1)	(4-3)	at 20°C	at 100°C	at 20°C	at 100°C		
CLS127-1R3N□	1R3	1.3 $\pm$ 30%	9.6(8.1)	9.9(8.32)	17.4	15.0	9.6	8.4	10.2	5.4
CLS127-2R1N□	2R1	2.1 $\pm$ 30%	11.2(9.4)	12.0(10)	14.4	12.3	7.8	6.6	9.3	4.6
CLS127-3R2N□	3R2	3.2 $\pm$ 30%	14.2(11.9)	15.4(12.8)	12.0	9.6	7.4	6.3	9.0	4.3
CLS127-5R8N□	5R8	5.8 $\pm$ 30%	23.0(19.3)	25.0(21.6)	9.9	8.0	4.8	3.9	7.0	3.4
CLS127-7R4N□	7R4	7.4 $\pm$ 30%	26.0(21.9)	28.0(24.1)	7.8	6.9	3.6	2.8	6.4	3.2
CLS127-110N□	110	11 $\pm$ 30%	47.0(39.7)	52.0(43.7)	7.0	6.2	3.2	2.6	4.6	2.1
CLS127-150N□	150	15 $\pm$ 30%	60.0(50.8)	65.0(56.8)	5.6	4.8	2.9	2.3	4.0	1.8
CLS127-230N□	230	23 $\pm$ 30%	90(75.9)	100(85)	4.0	3.8	2.2	1.8	3.3	1.4
CLS127-380N□	380	38 $\pm$ 30%	125(107)	145(122)	3.4	3.0	1.8	1.4	2.8	1.3
CLS127-500N□	500	50 $\pm$ 30%	195(165)	220(185)	3.0	2.4	1.6	1.3	2.2	1.0
CLS127-760N□	760	76 $\pm$ 30%	300(250)	330(278)	2.4	2.1	1.4	1.1	1.8	0.8
CLS127-111N□	111	110 $\pm$ 30%	365(306)	415(346)	2.0	1.8	1.0	0.9	1.6	0.7

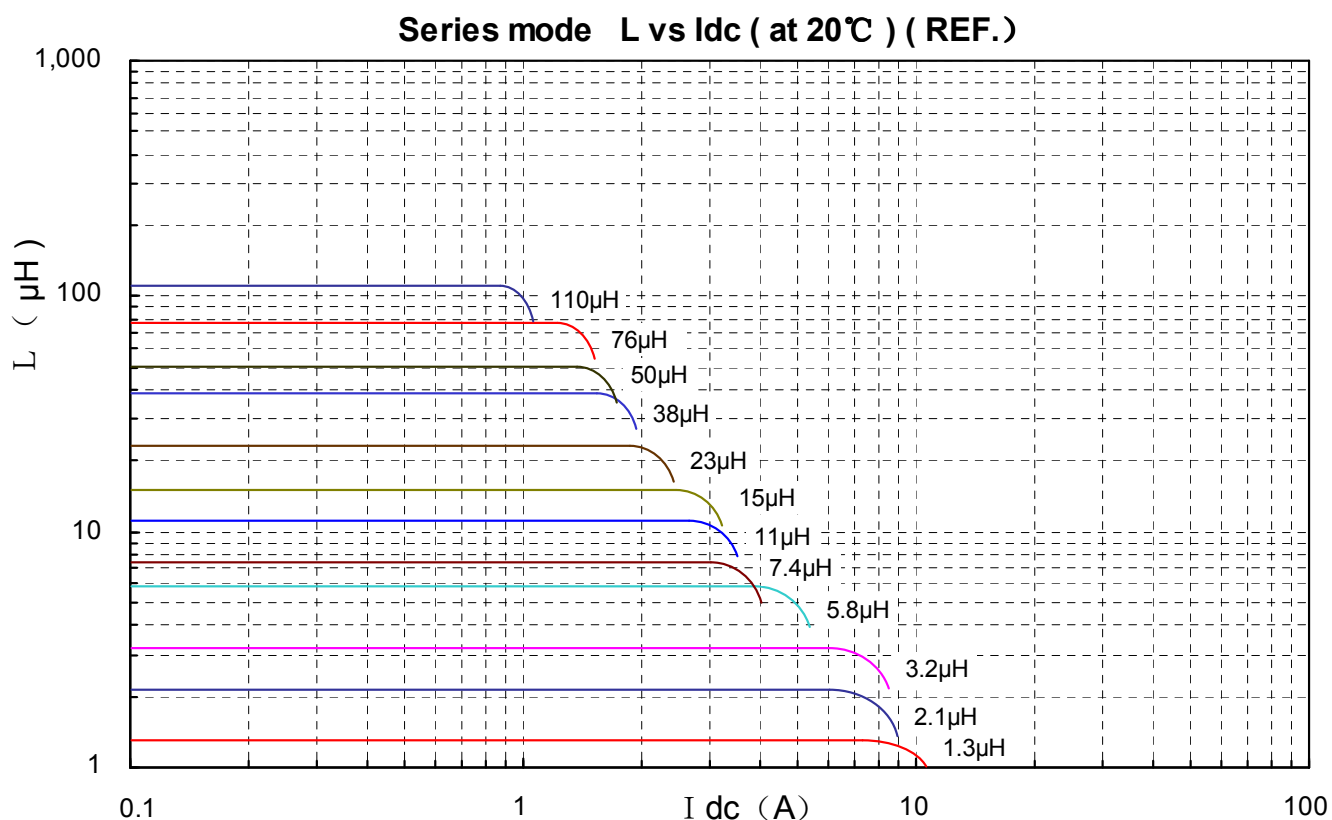
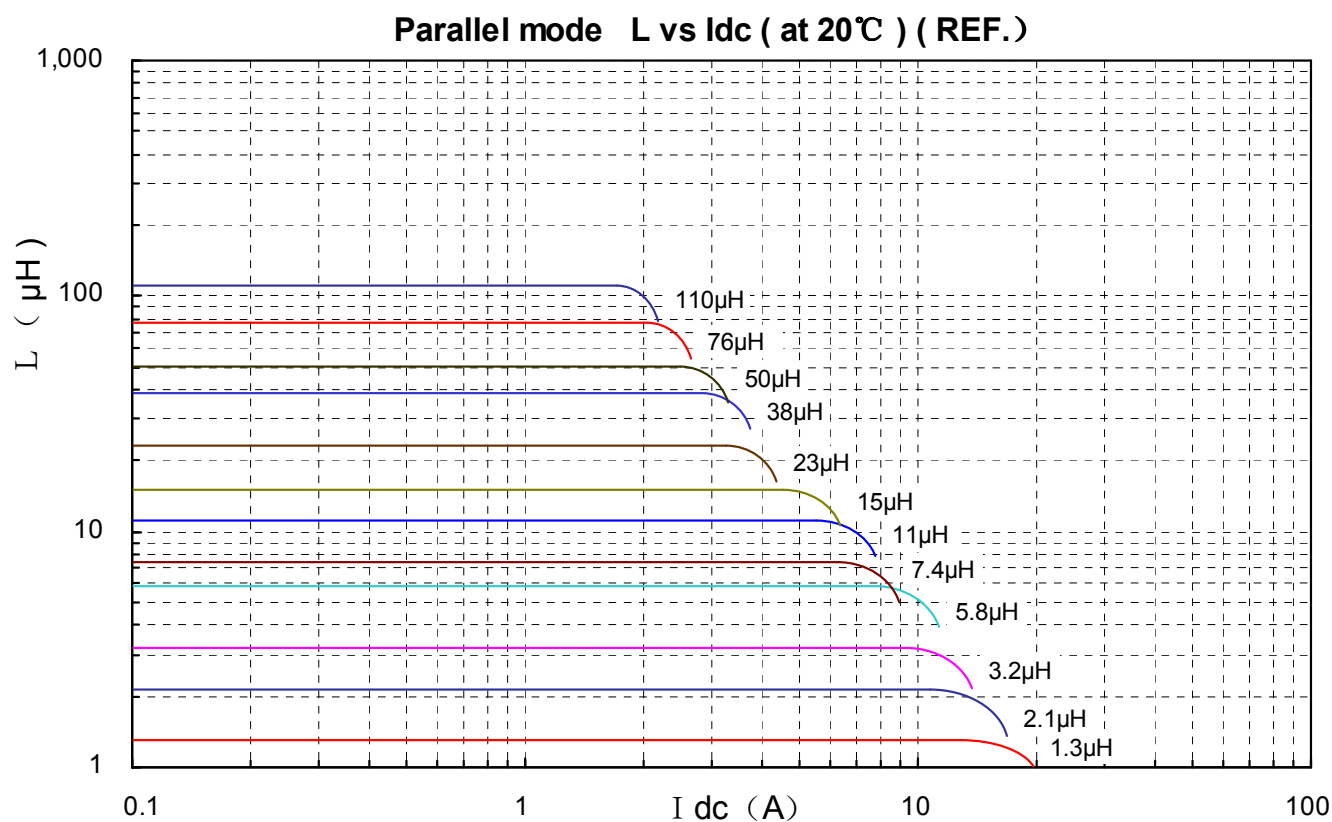
※ Description Of Part Name


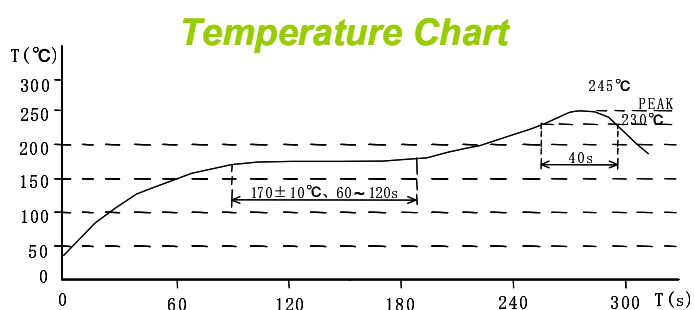
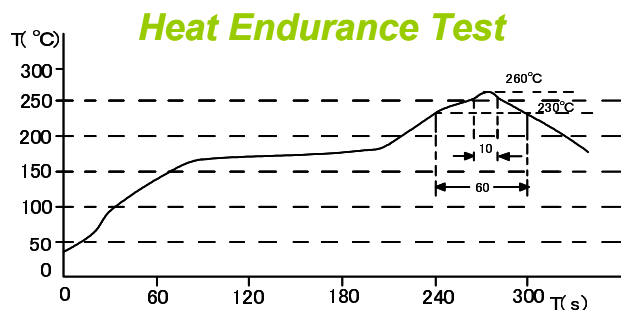
※1. () typical value.

※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: CLS127
◆ Typical L Vs Current (REF.)


Type: CLS127
◆ Recommendation Reflow Condition

◆ Packaging with Embossed Tape and Reel
Qty.: 500pcs/reel
