

Type: CLS4D14

Product Description

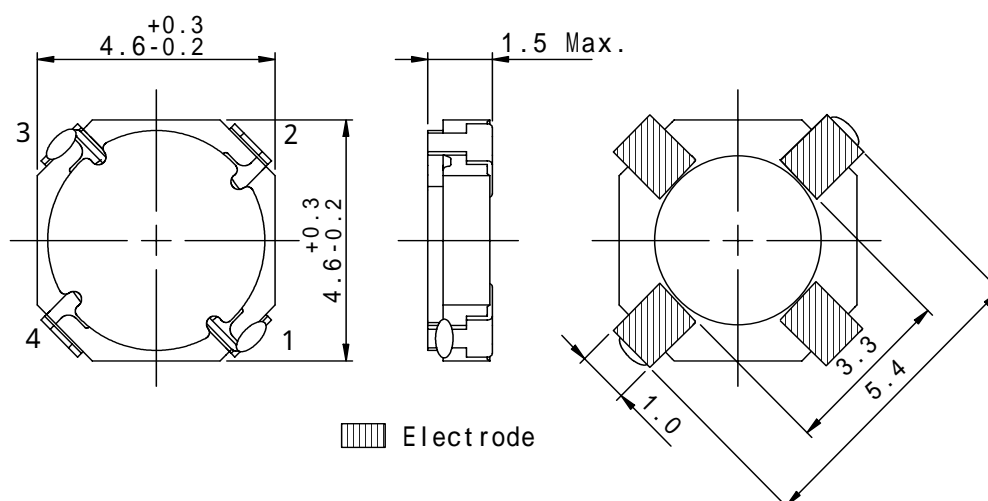
- 4.9 × 4.9mm Max.(L × W), 1.5mm Max. Height.
- 4 Terminal pins' type gives a flexible design as inductors or transformers (SEPIC, ZETA circuit)
- Custom design is available.



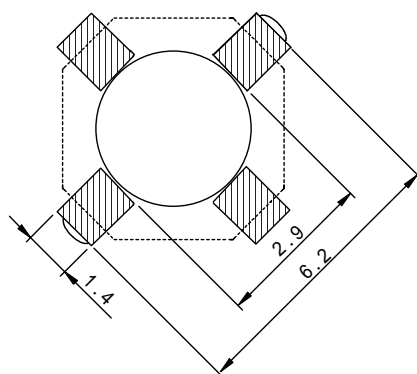
Feature

- Max. Operating frequency 1MHz, Max.
- Ideally used in portable devices such as Mobilephone, DSC/DVC, MP3, PDA, etc as DC-DC Converter inductors, specially suitable for White LED drive.
- It is possible to output high voltage and get sufficient accuracy which is hard to obtain with an ordinary inductor.
- RoHS Compliance

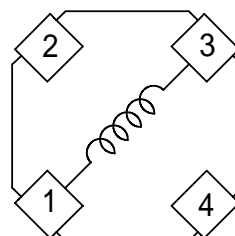
Dimensions (mm)



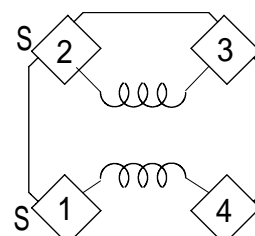
Land Pattern (mm)



Schematics (Bottom)



For Inductor



For 2 in 1 Transformer

Type: CLS4D14

Specification (For Inductor)

Part Name	Stamp	Inductance (μ H) [Within] 100kHz	D.C.R.(m Ω) Max.(Typ.) (at 20 $^{\circ}$ C)	Saturation Current (mA) (at 20 $^{\circ}$ C) 1	Temperature rise current (mA) 2
CLS4D14-4R7N	4R7	4.7 \pm 30%	110(85)	900	1000
CLS4D14-6R8N	6R8	6.8 \pm 30%	130(100)	800	1000
CLS4D14-100N	100	10 \pm 30%	180(140)	650	850
CLS4D14-150N	150	15 \pm 30%	270(210)	550	630
CLS4D14-220N	220	22 \pm 30%	390(300)	450	520
CLS4D14-330N	330	33 \pm 30%	560(430)	350	420
CLS4D14-470N	470	47 \pm 30%	830(640)	300	330

Description Of Part Name

CLS4D14NP - 4R7N

B Box
C Carrier Tape

1. Saturation current: The DC current at which the inductance decreases to 65% of it's nominal value.
2. Temperature rise current: The DC current at which the temperature rise is $t = 40^{\circ}$ C. ($T_a = 20^{\circ}$ C).

Specification (For 2 in 1 Transformer)

Sample No.	Inductance (at 100kHz)	D.C.R.(m Ω) Max. (at 20 $^{\circ}$ C)	Rated current (mA)
5362-T033	9.0 μ H \pm 30%	400	410

Rated current: The DC current at which the inductance decreases to 90 % of it's initial value or when $t=40^{\circ}$ C, whichever is lower($T_a=20^{\circ}$ C).