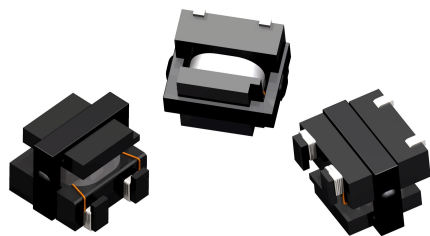


CT06 Series

SMT Current Sense Transformers



- Height: 5.0mm (Max)
- Footprint: 6.5mm (Ref) x 6.7mm (Max)
- Current Rating: Up to 18A
- Hi-Pot tested at 1,500 V_{AC}
- Meets Basic Creepage
- Patent Pending

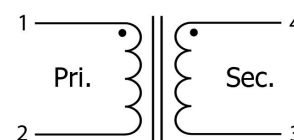
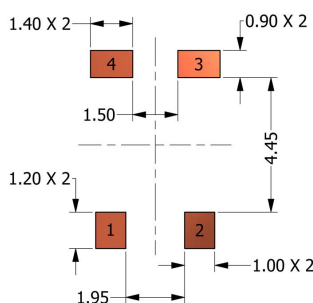
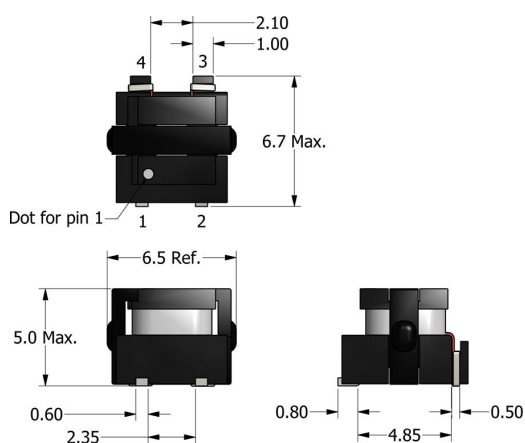
APPLICATIONS

DC/DC Converters
AC/DC Converters
POL Converters

PACKAGING

Reel Diameter: 13"
Reel Width: 16 mm
Pieces/Reel: 1000

Mechanical Drawing Recommended PCB Layout Schematic



All dimensions are in mm

Electrical Specifications @ 25°C - Operating Temperature Range¹: -40°C to +130°C

| Part Number | Turns Ratio (TR) | Secondary Inductance ² (mH, Min) | Secondary DCR (Ω, Max) | Current Rating ⁴ (A, Max) | SRF ⁵ (4-3) (MHz, Typ) | ET Product ⁹ (V-μs, Max) | Hi-Pot (V _{AC}) |
|-------------|------------------|---|------------------------|--------------------------------------|-----------------------------------|-------------------------------------|---------------------------|
| CT06-050 | 1:50 | 0.35 | 1.3 | 18 | 4.1 | 70 | 1500 |
| CT06-100 | 1:100 | 1.40 | 5.0 | 18 | 1.6 | 140 | 1500 |
| CT06-150 | 1:150 | 3.15 | 15.2 | 18 | 1.1 | 210 | 1500 |
| CT06-200 | 1:200 | 5.60 | 25.0 | 18 | 0.8 | 280 | 1500 |
| CT06-250 | 1:250 | 8.75 | 37.2 | 18 | 0.7 | 350 | 1500 |

- Operating Temp. Range:** The combination of ambient temperature and temperature rise.
- Secondary Inductance:** Tested at 10kHz, 0.1 V_{RMS}.
- Primary DCR (1-2):** 1 mΩ (Ref)
- Current Rating:** Peak current (50% duty cycle) through primary (1-2) to cause 40°C temperature rise at 25°C ambient.
- SRF values are for reference only.
- Flammability Standard:** Meets UL 94V-0.
- Meets RXT-2 Class F Insulation System (E169423).**
- Terminating Resistor (R_B):** To calculate the value use the formula, $R_B = E_0 TR / I_p$
- ET Product:** The maximum ET is based upon a flux density of 3700 Gauss at 25°C. Suitable for bipolar applications only.
 $ET = E_0 / 2f$
 $E_0 = I_p R_B / TR$
 where as,
 $E_0 =$ Output voltage (V) $TR =$ Turns Ratio
 $R_B =$ Term. Resistor (Ω) $f =$ Frequency (Hz)
 $I_p =$ Primary Current



Specifications subject to change without prior notice.