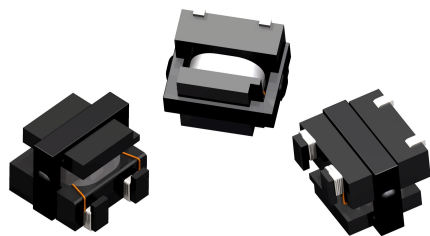


CT06 Series

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

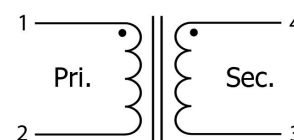
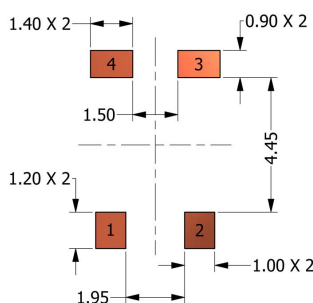
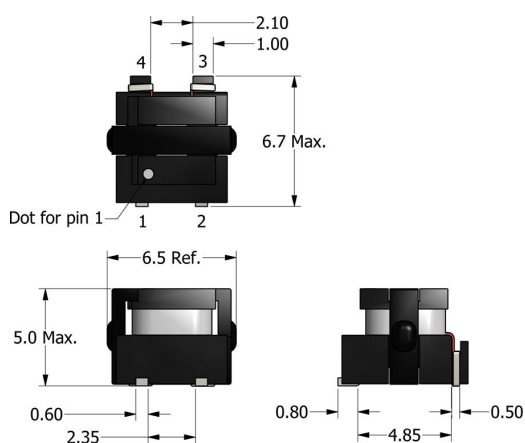
APPLICATIONS

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.

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ICE Components:

[CT06-150](#) [CT06-050](#) [CT06-200](#) [CT06-100](#) [CT06-250](#)