

CT07-1000

Tombstone THT Current Sense Transformers



- Height: 26.9mm (Max)
- Footprint: 23.6mm (Max) x 13.0mm (Max)
- Current Rating: Up to 200A_{RMS}
- Encapsulated Construction
- PCB Mount

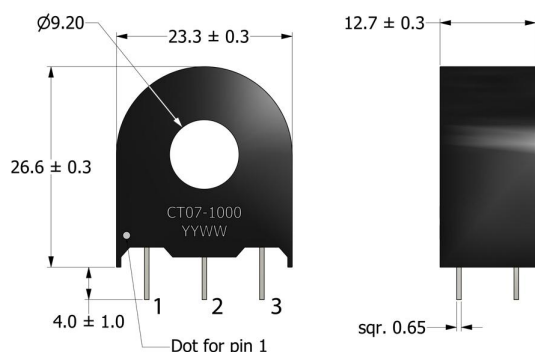
APPLICATIONS

Switching Power Supplies
Motor Controls

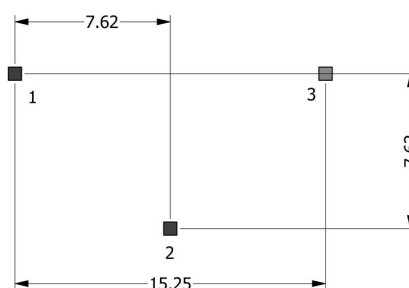
PACKAGING

Pieces/Tray: 60
Trays/Box: 9
Pieces/Box: 540

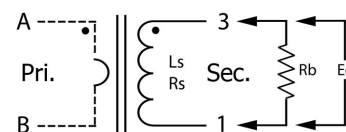
Mechanical Drawing



Recommended PCB Layout



Schematic



All dimensions are in mm

Electrical Specifications @ 25°C - Operating Temperature Range¹: -40°C to +105°C

Part Number	Turns Ratio (TR)	Secondary Inductance (H, Min)	Secondary DCR (Ω, Max)	Current Rating ² (A _{RMS} , Ref)	SRF ³ (3-1) (kHz, Typ)	ET Product ⁷ (V-μs, Max)	Hi-Pot (V _{AC})
CT07-1000	1:1000	8	26	200	3.2	6000	3750

- Operating Temp. Range:** The combination of ambient temperature and temperature rise.
- Current Rating:** The primary current rating is for reference only and is limited by the current capacity of the customer-supplied primary conductor.
- Self-Resonant Frequency:** The value is for reference only.
- Flammability Standard:** Meets UL 94V-0.
- Material Rating:** Meets requirements for UL Class A temperature rating. Ambient + Temp. Rise + HotSpot Allowance < 105°C.
- Terminating Resistor (R_B):** To calculate the value use the formula, $R_B = E_0 TR / I_P$
- ET Product:** Rated at 100°C. Suitable for bipolar applications only.

$$ET = E_0 / 2f$$

$$E_0 = I_P R_B / TR$$

where as,

E_0 = Output voltage (V)

R_B = Term. Resistor (Ω)

I_P = Primary Current

TR = Turns Ratio

f = Frequency (Hz)

I_P	Terminating Resistor, R _B	E_0
10	140	1.4
20	70	1.4
50	28	1.4
100	14	1.4
150	8	1.2
200	6	1.2

Specifications subject to change without prior notice.

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