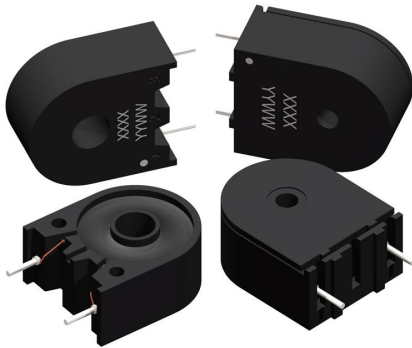


CT03 Series

Encapsulated THT Current Sense Transformers



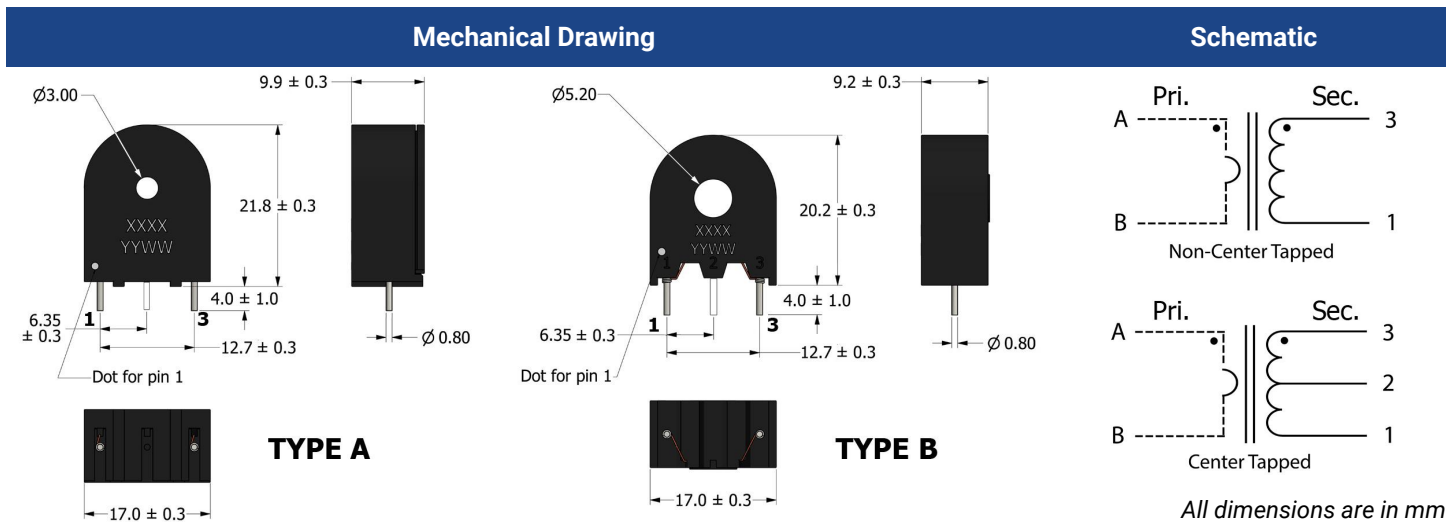
- Height: 22.1mm (Max)
- Footprint: 10.2mm (Max) x 17.3mm (Max)
- Current Rating: Up to 25A
- Meets UL1950 and EN60950 Creepage/Clearance Spacing

APPLICATIONS

- Feedback Control
- Overload Protection
- Load Drop or Shutdown Detection

PACKAGING

- Pieces/Tray: 270
- Trays/Box: 5
- Pieces/Box: 1350



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 ³ (A, Max)	SRF ⁴ (3-1) (kHz, Typ)	ET Product ⁷ (V-μs, Max)	Hi-Pot (V _{AC})
CT03-050-B_	1:50	5	0.6	25	517	550	3750
CT03-100-B_	1:100	20	1.3	25	225	1100	3750
CT03-200-B_	1:200	80	4.5	25	52	2200	3750
CT03-1000-A_	1:1000	1500	57.0	25	10	11000	3750

- Operating Temp. Range:** The combination of ambient temperature and temperature rise.
- Secondary Inductance:** Tested @ 17.5KHz, 1V_{RMS}, Series. CT03-1000-A is tested @ 1KHz, 1V_{RMS}, Series.
- Current Rating:** The primary current rating is for reference only and is limited by the current capacity of the customer-supplied primary conductor.
- SRF values are for reference only.
- Flammability Standard:** Meets UL 94V-0.
- 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

P/N Designator Suffix for Secondary Winding:

C - Center Tapped N - Non-Center Tapped



Specifications subject to change without prior notice.