

## Toroidal, Panel Mounted Current Transformer

The CTT0350 series of toroidal, panel mounted current transformers provide highly accurate, non-contact step-down transformation of the AC primary current to a level appropriate for micro-processor based circuits.

The CTT0350 features high over current measurement capability over a broad frequency range.



### Features:

**Rated Primary Input:** 5A to 500A

**Secondary Output:** Configurable for either an mV or mA.

Suitable for harsh operating environments.

### Specifications:

- Frequency Range: 50 to 400 Hz.
- Output:
  - mV secondary: from 0.100 VAC to 5.0 VAC at rated current
  - OR**
  - mA secondary:
    - 1:1000, 1:2000,
    - 1:3000, 1:5000
- Insulation Voltage: 600 VAC
- Dielectric Resistance: 1,000 M ohms @ 500 VDC
- Isolation Voltage: 2500 V<sub>RMS</sub> for 1 minute, 0.5mA
- Surge withstand potential: 5,000V (1.2/50 $\mu$ s standard shock wave)
- Rated Load Resistance:
  - mV output:  $\geq$  100k Ohms.
  - mA output:  $\leq$  200 Ohms
- Operating Temperature: -40 $^{\circ}$ C to +85 $^{\circ}$ C

- **Primary Conductor Opening:** 35.0mm (1.38")
- Construction:
  - Core material: Silicon steel CRGO.
  - Case: ABS or PBT, UL flame retardant rating 94V-0
  - Epoxy encapsulated.
- Lead Wire: .61 m (2 Ft), AWM/UL 1015 twisted Pair, 18AWG, 600v
- CE Certified.
- UL Certified (File #E466650)
- RoHS compliant



### Performance:

- Accuracy Class: 0.1, 0.2, 0.5 (IEC60044-1)
- Linearity:  $\pm$ 1% from 10% to 120% of Rated Current
- Phase Shift Error:  $\leq$  10'
- Over load Multiple: 6 times rated primary current.
- Over Current Persistence Time - 2 seconds.

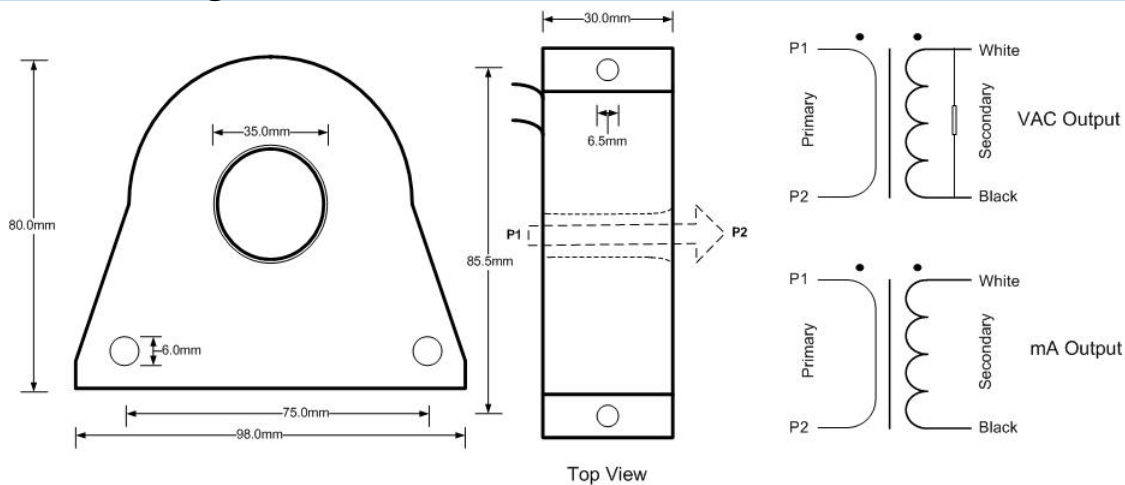
**Models:**

Part Number	Rated (Amp)	MAX (amp)	Opening (mm/in)
CTT0150-xxxx/yyy (UL E466650)	5A to 150A	180A	15.0/0.59"
CTT0200-xxxx/yyy	5A to 200A	240A	20.0/ 0.79"
CTT0250-xxxx/yyy	5A to 250A	300A	25.0/0.98"
CTT0350-xxxx/yyy (UL E466650)	5A to 500A	600A	35.0/1.38"
CTT0450-xxxx/yyy	5A to 500A	600A	45.0/1.77"
CTT0550-xxxx/yyy (UL E466650)	100A to 800A	960A	55.0/2.17"
CTT0720-xxxx/yyy (UL E466650)	100A to 1000A	1200A	72.0/2.83"

**Note: "Max. Amps"** is the highest continuous current that the CT can handle without being damaged.

The suffix "-xxxx" is the rated primary current in ampere. The "yyy" is the secondary output at rated primary current.

**Outline Drawing CTT0350:**



Custom toroidal current transformer designs are available to meet the specific application requirements. For a no obligation technical evaluation, please provide the specific performance requirements to [engineering@tichenassociates.com](mailto:engineering@tichenassociates.com) or the address below.