

## Toroidal Current Transformer

### Features:

Seven (7) Standard Sizes:

- CTT1611 – 16.3mm (0.64") opening,
- CTT2511 – 25.4mm (1.00") opening,
- CTT3911 – 39.6mm (1.56") opening,
- CTT5211 – 52.3mm (2.06") opening,
- CTT6311 – 63.5mm (2.50") opening,
- CTT8211 – 82.6mm (3.25") opening,
- CTT1A11 – 108.0mm (4.25") opening.

Four (4) configuration options:

- L – Wire leads,
- T – Terminals,
- LC – Wire leads and mounting plate,
- LT – Terminals and mounting plate.

### Specifications:

- Frequency: 50 to 400Hz
- Maximum operating voltage: 600VAC.
- Isolation voltage 10k VAC for 1 minute.
- Operating Temperature: -25°C to +55° C  
Optional: -40°C to +85° C
- Construction:
  - Epoxy encapsulated housing
  - Case material: PBT or ABS
  - Wire Leads: 0.61m (2Ft), UL 1015, Twisted Pair, 0.34mm<sup>2</sup> (22AWG).



- CE Approved
- RoHS compliant.



### Performance:

- Accuracy Class: 0.1, 0.2, 0.5, 1.0, 3.0 (IEC 60044-1)
- Accuracy:  $\leq \pm 0.1\%$  @ Rated Current
- Phase shift:  $\leq 10'$  @ Rated Current
- Linearity: 5% to 120% of Rated Current

### Options:

- Optional primary to secondary ratios:
  - xxxx to 1A at rated current,
  - xxxx to 5A at rated current,
  - xxxx to 0.2A at rated current,
  - xxxx to 0.1A at rated current.
- **Optional:** Polyester film covering in lieu of case.

**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.

### Configuration Options:

Ratio	Accuracy Class @ Secondary Burden Impedance				
	2.5 VA	5.0 VA	12.5 VA	22.5 VA	50 VA
50A/ 5A	5.0				
60A/ 5A	3.0				
75A/ 5A	3.0	3.0			
80A/ 5A	1.0	3.0			
100A/ 5A	1.0	1.0			
120A/ 5A	1.0	1.0			
125A/ 5A	0.5	1.0			
150A/ 5A	0.5	1.0	3.0		
200A/ 5A	0.2	0.5	1.0		
250A/ 5A	0.2	0.5	1.0		
300A/ 5A	0.2	0.2	0.5	1.0	3.0

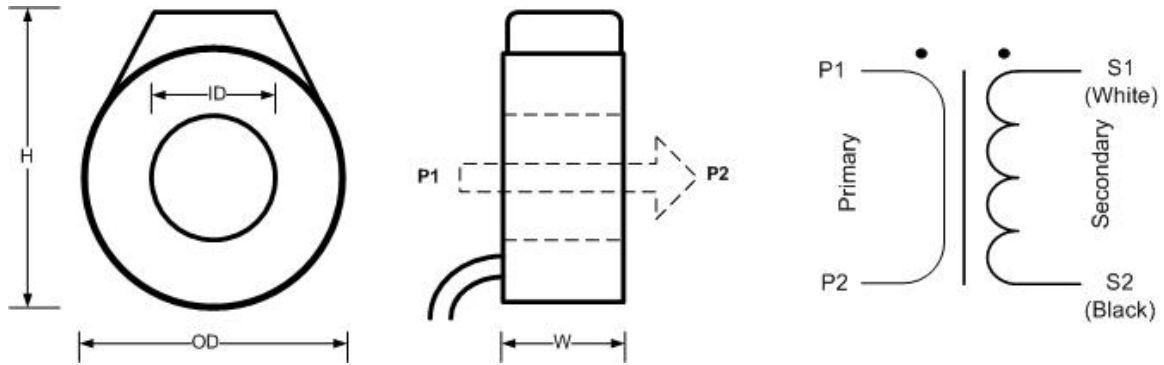
NOTE: Accuracy class as defined by IEC60044-1 @ 50/60 HZ

### Typical Performance:

Model – CTT2511-L-0200A/ 5A (Burden = 5VA, Power Factor = 0.8)

Primary Current (% FS)	5%	20%	50%	80%	100%	120%
Ratio Error (%)	-0.565	-0.630	-0.529	-0.506	-0.511	-0.508
Phase Shift Error (')	45.8	28.8	22.6	18.3	16.6	17.5

**Outline Drawing:**



**Dimensions:**

	Dimensions mm (inch)			
	ID	OD	W	H
CTT2511	25.4 (1.00)	65.0 (2.56)	44.5 (1.75)	69.0 (2.72)