

## Toroidal, Panel Mounted Voltage Transformer

The **TV2501** Series of toroidal, PCB mounted voltage transformer is designed for application where an AC current signal must be transformed into lower AC voltage signal appropriate for micro-processor based circuits.

The TV2501 series are designed specifically for integration into products which require exceptionally accurate signal transformation with low phase shift while exposed to harsh environmental operating conditions.



### Specifications:

- **Primary:** 150, 200, 220, 300VAC or 380VAC
- **Secondary:** Options: 100mV to 7.07 V @ rated voltage
- Frequency: 50 to 400 Hz
- Dielectric Resistance: 1,000 Mohms @ 500 Vdc
- Isolation Voltage: 2500 Vrms for 1 minute @0.5 mA.
- Surge withstand potential: 5000V (1.2/50 $\mu$  second standard shock wave)
- Operating Temperature: -25°C to +55°C  
Optional: -40°C to +85°C
- Construction:
  - Case Material: PBT Resin, UL 94 V-0
  - Interior Insulation: Epoxy resin

- Leads: 0.61m (2.0FT).AWM 1015, Twisted Pair, 0.34mm<sup>2</sup> (22AWG), 600V
- Lead termination: Stripped and tinned.
- RoHS compliant



### Performance:

- Accuracy Class: 0.1L (IEC 60044-2 Part 2 Voltage Transformers Class 0.1)
- Linearity: 5% to 120% of Rated Voltage
- Voltage error @ Rated Voltage:  $\leq \pm 0.1\%$
- Phase shift @ Rated Voltage:  $\leq 5'$
- Excitation Current:  $\leq 0.5$  mA
- Secondary burden resistance: 100 kOhm

Zibo Yuanxing Electronics Co., LTD  
Sanying Road, Science & Technology Industry Park  
Zhangdian, Zibo, Shandong Province 255095  
P.R.C

Telephone : +86.533.381.8450  
<http://www.yuanxing.net>

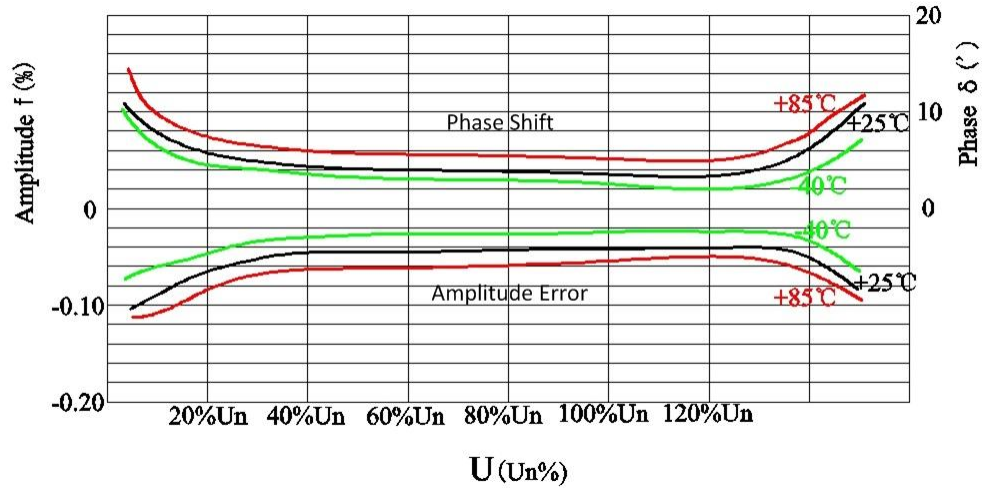
FAX : +86.533.381.8724  
[sales@yuanxing.net](mailto:sales@yuanxing.net)

T.I. Chen Associates LLC.  
1101 N. 5<sup>th</sup> Street  
Tacoma, Washington 98403-1610  
USA

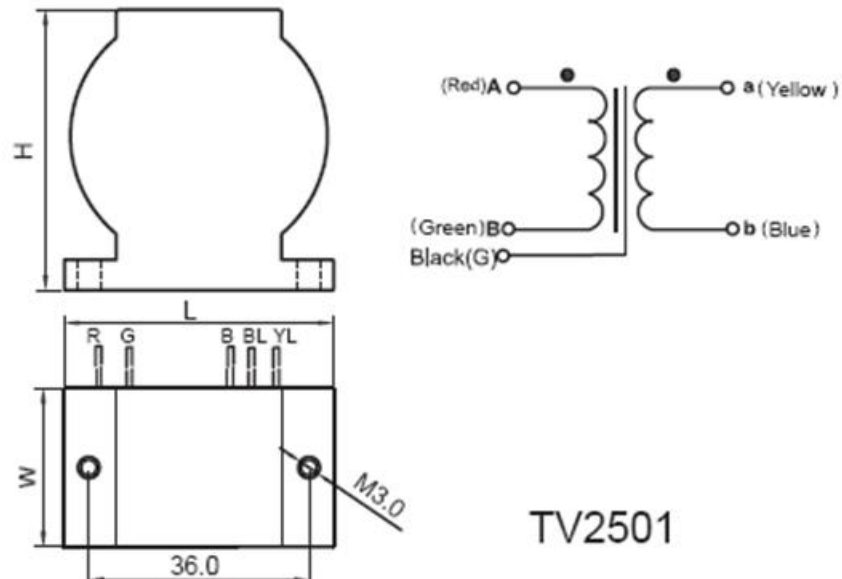
Telephone: 253.678.2661  
<http://www.TIChenAssociates.com>

FAX: 206.350.6482  
[sales@tichenassociates.com](mailto:sales@tichenassociates.com)

**Typical Performance (Primary = 120VAC FS,  $R_{Load} \geq 100\text{ k}\Omega$ )**



**Outline Drawing:**



L	W	H
44.0mm (1.7")	26.0mm (1.0")	46.0mm (1.8")

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**NOTE:** The TV2501 Series of PCB mounted voltage transformers are bulk packed. Purchase order quantities should be in increments of the bulk packaging quantities:

- TV2501 – \_\_ pc increments, \_\_ pcs per bulk pack  
(Bulk pack box = 0.015CBM, \_\_ kg)

**Custom toroidal voltage 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.

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