

Model TV2xxx Toroidal, PCB Mounted Voltage Transformer

The YUANXING TV2xxx series of toroidal, PCB Mounted voltage transformers are designed for applications where the primary AC voltage signal must be transformed accurately into a lower secondary AC voltage signal appropriate for micro-processor based circuit designs.

These printed circuit board (PCB) mounted voltage transformers are designed to provide exceptional primary signal transformation accuracy with low phase shift while operating in harsh operating environments. The potential transformers (PT)/ voltage transformers (VT) feature high dielectric insulation and asymmetrical mounting packages.

Features

- Asymmetrical mounting pattern.
- Toroidal Core using Silicon steel or Nickel Alloy material.
- Printed circuit board mounted (PIH)

Specifications:

- Frequency: 50 to 400 Hz
- Isolation Voltage: 2500 Vac for 1 minute
- Dielectric Resistance: 1000 M Ohms @ 500 Vdc
- Surge Withstand: 5000V
- Operating Temperature: -25°C to +55°C
Optional: -40°C to +85°C
- Rated Load Resistance: 100K Ohms
- Construction:
 - Exterior Material: PBT Resin, UL 94 V-0 flame retardant rating.
 - Interior Insulation: Epoxy resin encapsulated
- RoHS Compliant



Performance:

- Secondary Output:
Optional voltage from 0.10V to 7.07V @ Rated Current.
- Accuracy Class: as defined in IEC 60044-2 Part 2, Voltage Transformers.



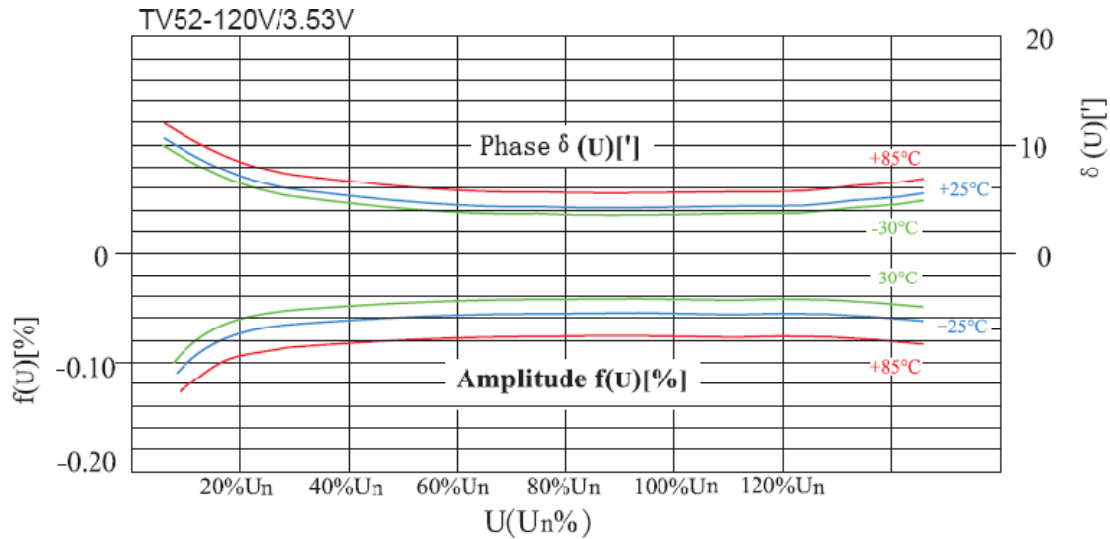
Options:

- The secondary output can be designed to provide any voltage between 100mV to 7.07V at Rated Voltage input.
- The voltage transformer can be configured for panel mounting with leads. Standard lead length is 0.6m (2 Ft.). Lead length and lead termination can be designed to meet the specific application requirements.

Performance

Part Number	Rated Voltage	Excitation Current (mA)	Accuracy Class	Phase Error at rated Voltage	Linearity
TV2601	Input: 57.7V, 100V, 120V, 200V Output: 100mV--7.07V(Optional)	≤0.5	0.1	≤20'	5% to 120% of Rated Voltage
TV2701	Input: 57.7V, 100V, 120V, 200V Output: 100mV--7.07V(Optional)	≤0.5	0.1	≤20'	5% to 120% of Rated Voltage
TV2801	Input: 100V, 150V, 220V Output: 100mV--7.07V(Optional)	≤0.5	0.1	≤20'	5% to 120% of Rated Voltage
TV2901	Input: 150V, 220V, 300V Output: 100mV--7.07V(Optional)	≤0.5	0.1	≤20'	5% to 120% of Rated Voltage

Typical Performance – Amplitude & Phase Shift Error:



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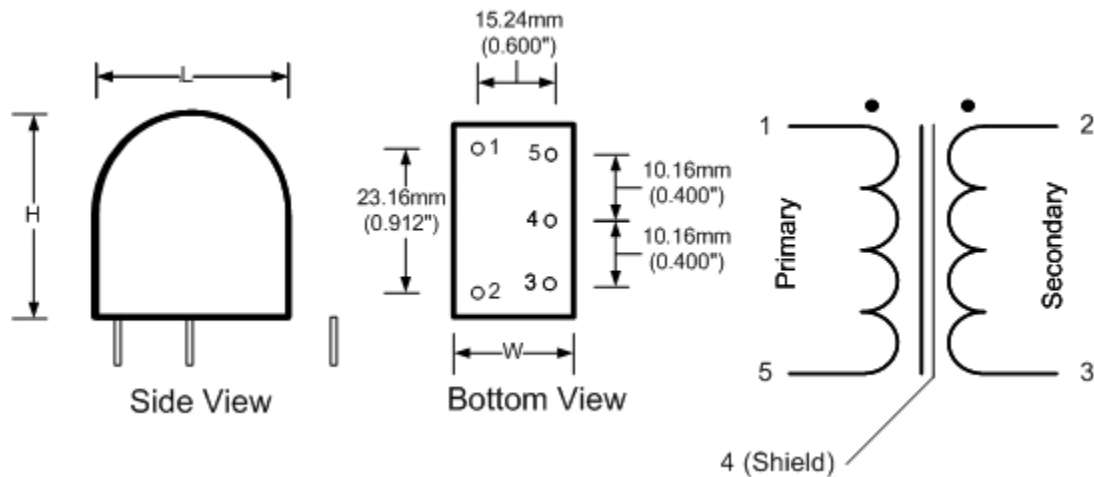
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Outline Drawing:



Outline Dimensions:

Part Number	Length - L (mm/ inch)	Height - H (mm/ inch)	Width - W (mm/ inch)
TV2601	32.0mm (1.259")	33.0mm (1.299")	22.5mm (0.886")
TV2701	34.0mm (1.339)	35.0mm (1.378")	24.0mm (0.945")
TV2801	37.0mm (1.4579)	37.0mm (1.4579)	23.0mm (0.906")
TV2901	37.0mm (1.4579)	39.0mm (1.535")	26.0mm (1.024")

Notes:

TV2601 Packaging:

Carton -355mm (14.0") x 243mm (9.6") x 45mm (1.8"), 78 pcs per carton
Bulk pack carton - 360mm (14.2") x 250mm (9.8") x 265mm (10.4")
390 pcs per bulk pack

TV2701 Packaging:

Carton -355mm (14.0") x 243mm (9.6") x 45mm (1.8"), 78 pcs per carton
Bulk pack carton - 360mm (14.2") x 250mm (9.8") x 265mm (10.4")
390 pcs per bulk pack

TV2801 Packaging:

Carton -355mm (14.0") x 243mm (9.6") x 45mm (1.8"), 78 pcs per carton
Bulk pack carton - 360mm (14.2") x 250mm (9.8") x 265mm (10.4")
390 pcs per bulk pack

TV2901 Packaging:

Carton -355mm (14.0") x 243mm (9.6") x 45mm (1.8"), 78 pcs per carton
Bulk pack carton - 360mm (14.2") x 250mm (9.8") x 265mm (10.4")
390 pcs per bulk pack

Custom voltage transformer designs are available to meet the specific application requirements. For a no obligation technical evaluation, please provide the specific performance requirements to applicationengineering@tichenassociates.com or the address below.

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