

Lamination, Panel Mounted Voltage Transformers

The YUANXING TV4xxx series of lamination, Panel 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

- Core lamination using Silicon steel or Nickel Alloy material.
- Panel mounted with wire leads.

Specifications

- Frequency: 50 to 400 Hz.
- Isolation Voltage: 2500 V_{RMS} for 1 minute.
- Dielectric Resistance: 1000 M Ohms @ 500 V_{DC}.
- Surge Withstand: 5,000V (1.2/50 μ s standard shock wave).
- Operating Temperature: -25°C to +55°C.
Optional: -40°C to +85°C.
- Lead Wires: 0.6m (2 Ft.).
- Lead Termination: Stripped and tinned.
- Rated Load Resistance: 100K Ohms.
- **RoHS Compliant**



Performance

- Secondary Output: Optional voltage from 0.100V to 7.07V @ Rated voltage.
- Accuracy Class: 0.2, 0.5 (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.
- Lead length and lead termination can be designed to meet the specific application requirements.
- The voltage transformer can be configured for PCB mounting.

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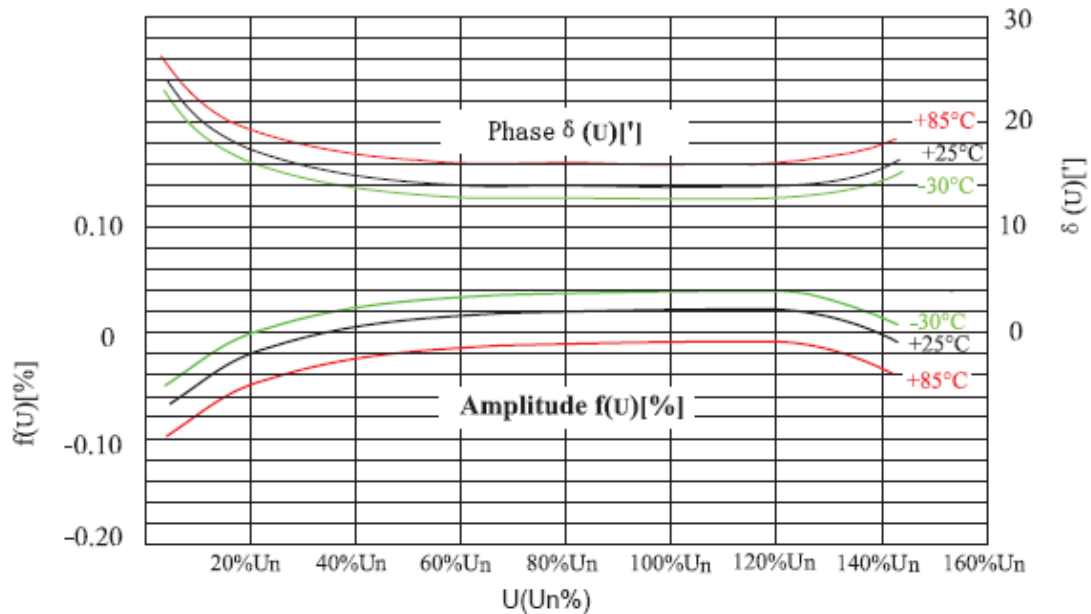
FAX: 206.350.6482

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Standard Models – Panel Mounted

Part Number	Rated Voltage	Excitation Current (mA)	Accuracy Class	Phase Error at rated Voltage	Linearity
TV4093A3	Input: 57.7V, 100V, 120V, 150V Output: 100mV--7.07V(Optional)	≤0.5	0.2, 0.5	≤20'	5% to 120% of Rated Voltage
TV4093B1	Input: 100V, 220V, 240V, 380V, 400V Output: 100mV--7.07V(Optional)	≤0.5	0.2 0.5	≤20'	5% to 120% of Rated Voltage

Typical Performance - Amplitude & Phase Shift Error



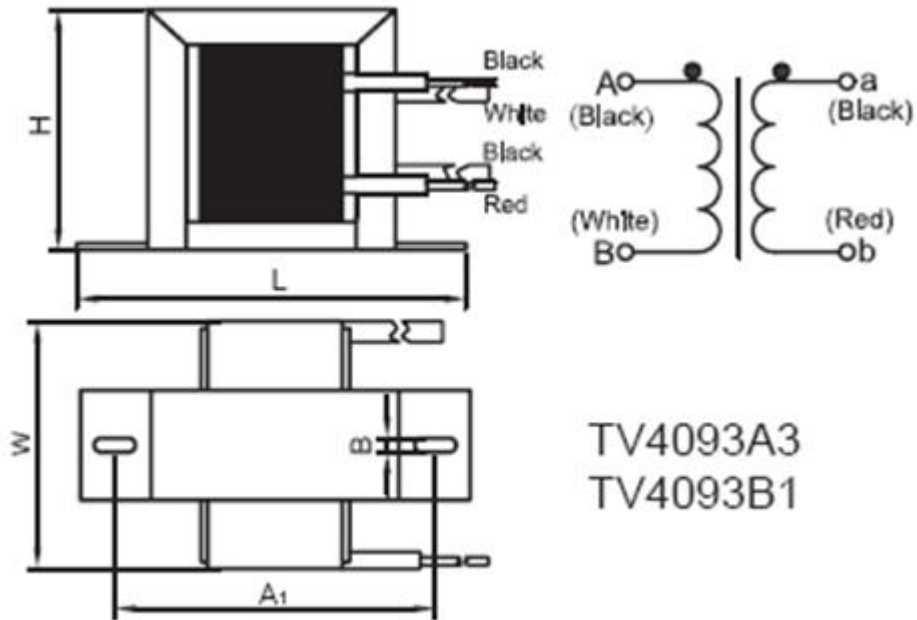
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Outline Drawing:



Outline Dimensions

Part Number	Dimensions - mm (inches)				
	L	W	H	A1	B
TV4093A3	50.0 (1.969)	33.0 (1.299)	37.0 (1.457)	44.0 (1.732)	4.0 (0.157)
TV4093B1	57.0 (2.244)	35.0 (1.378)	33.0 (1.299)	46.0 (1.811)	5.0 (0.197)

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Notes:**TV4093A3 Packaging:**

Carton - 200mm (7.9") x 155mm (6.1") x 48mm (1.9"), 42 pcs per carton

Bulk pack carton - 320mm (12.6") x 210mm (8.3") x 200mm (7.9"), 420 pcs/ bulk pack

TV4093B1 Packaging:

Carton - 200mm (7.9") x 155mm (6.1") x 48mm (1.9"), 36 pcs per carton

Bulk pack carton - 320mm (12.6") x 210mm (8.3") x 200mm (7.9"), 288 pcs/ 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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