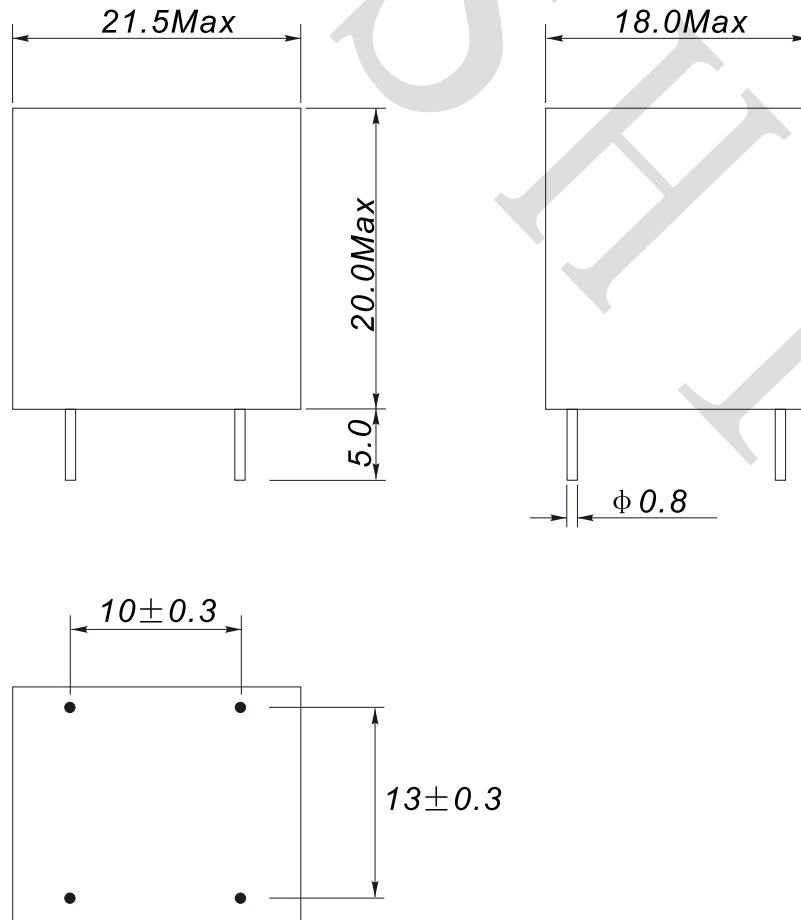
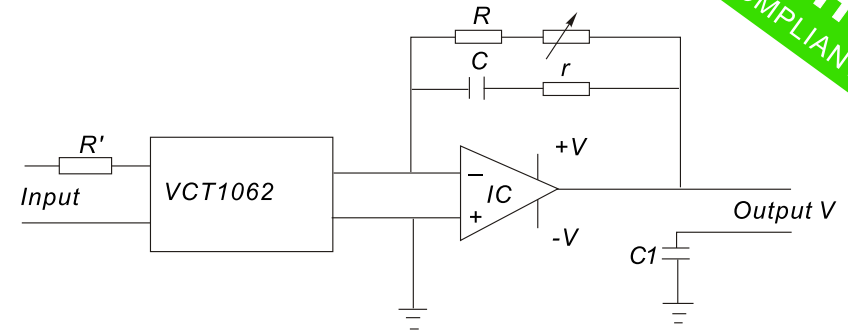


1. PHYSICAL CHARACTERISTICS (mm)



2. ELECTRONICAL SCHEMATIC



3. ELECTRONICAL SPECIFICATIONS

- Turns ratio: 1:1
- Rated input: 2mA(0~1000V)
- Rated output: 2mA(0~10V)
- Overload multiples: 2
- Linearity: $\leq 0.1\%$
- Phase-Shifting: $\leq 15'$
- Hi-Pot: 2500VAC
- Operating temperature: -40°C to $+80^{\circ}\text{C}$

Note:

1. Solderability: leads shall meet MIL-STD-202, Method 208D for solderability.
2. Flammability: UL94V-0
3. ASTM oxygen index: $>28\%$

NOTES:

Temp 25°C 48%RH
RoHS Compliant

NAME:	Voltage transformer		
CUSTOMER P/N:		DATE:	2011-10-18
SHINHOM P/N:	VCT1062	REV:	A0
DRAWN BY	CHECKED BY	APPROVE BY	



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VCT3xxx Lamination, PCB Mounted Voltage Transformer

The SHINHOM VCT3xxx series of lamination, 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

- Five (5) standard sizes.
- Asymmetrical mounting pattern.
- Core lamination 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
- Construction:
 - Exterior Material: ABS or PBT Resin
 - Interior Insulation: Epoxy resin encapsulated
- Rated Load Resistance: 100K Ohms
- **RoHS Compliant**
- **CE approved**



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.



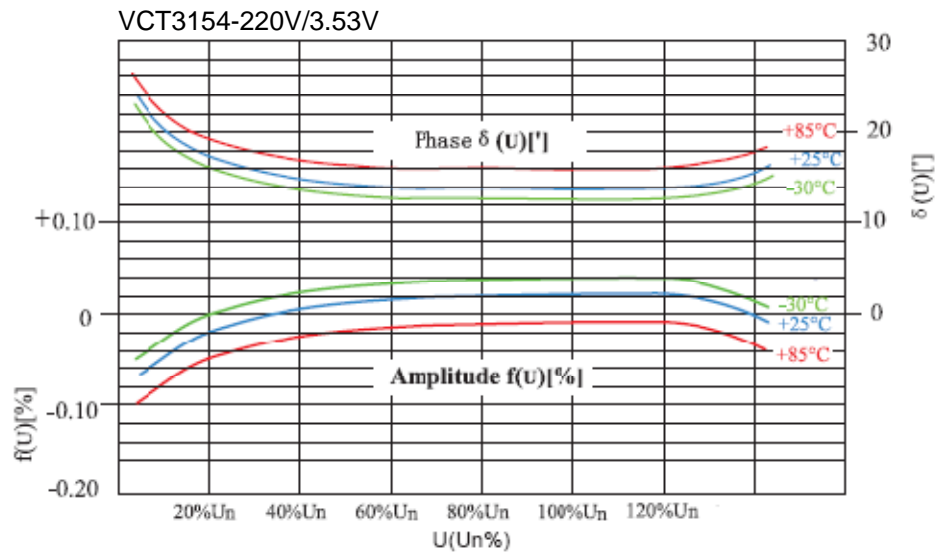
Options:

- 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.

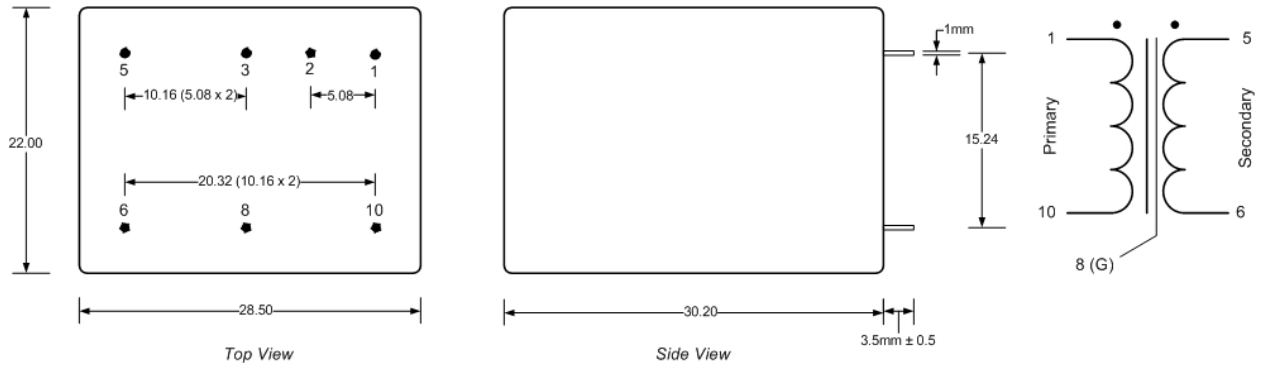
Performance:

Part Number	Rated Voltage	Excitation Current (mA)	Accuracy Class	Phase Error at rated Voltage	Linearity
VCT3051	Input: 100V, 220V, 240V Output: 100mV--7.07V(Optional)	≤0.5	0.5	≤20'	5% to 120% of Rated Voltage
VCT3154	Input: 100V, 220V, 240V, 400V, Output: 100mV--7.07V(Optional)	≤0.5	0.2, 0.5	≤20'	5% to 120% of Rated Voltage
VCT3253	Input: 100V, 220V, 240V, 400V, Output: 100mV--7.07V(Optional)	≤0.5	0.2, 0.5	≤20'	5% to 120% of Rated Voltage
VCT3352	Input: 100V, 220V, 240V, 400V, Output: 100mV--7.07V(Optional)	≤0.5	0.2, 0.5	≤20'	5% to 120% of Rated Voltage
VCT3452	Input: 220V, 240V, 380V, 600V, Output: 100mV--7.07V(Optional)	≤0.5	0.2, 0.5	≤20'	5% to 120% of Rated Voltage

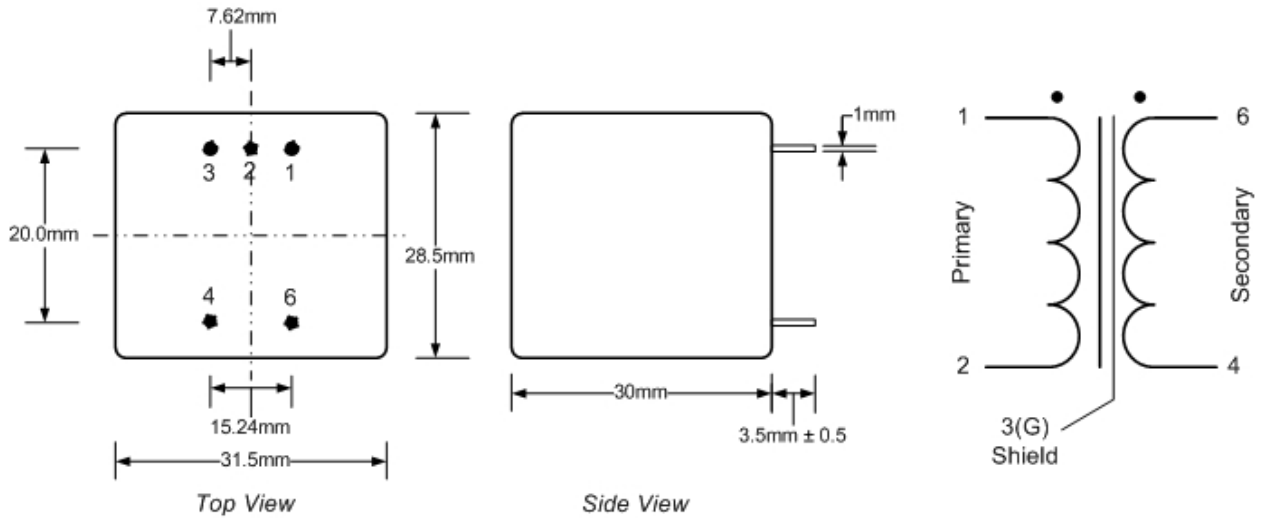
Typical Performance - Amplitude & Phase Shift Error:



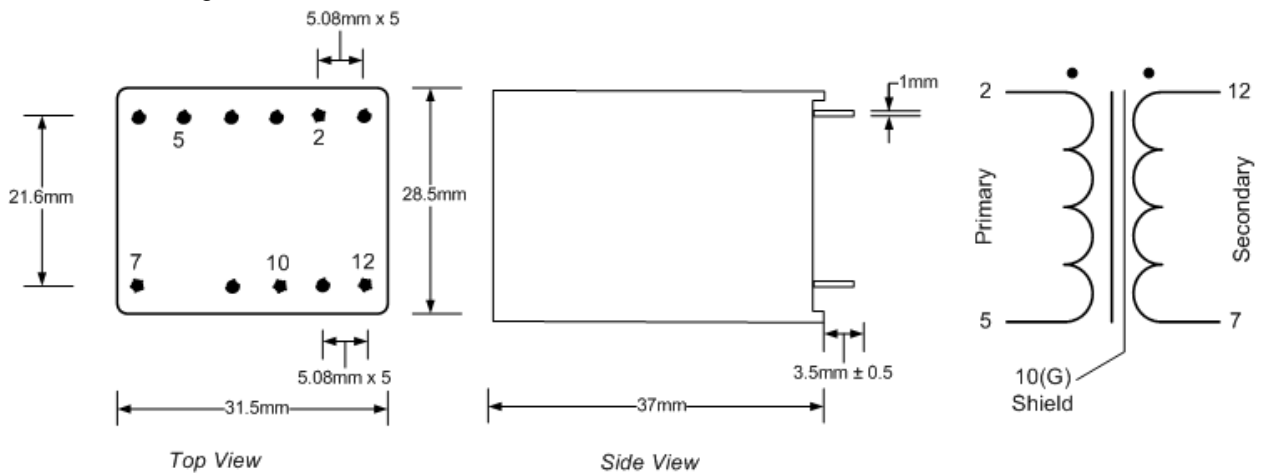
Outline drawing-VCT3051



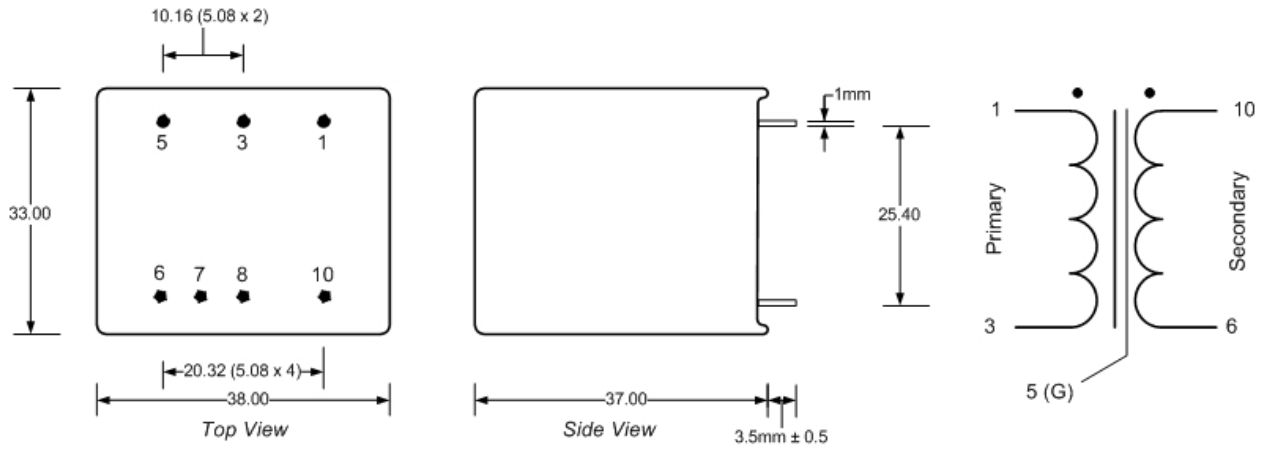
Outline drawing-VCT3154



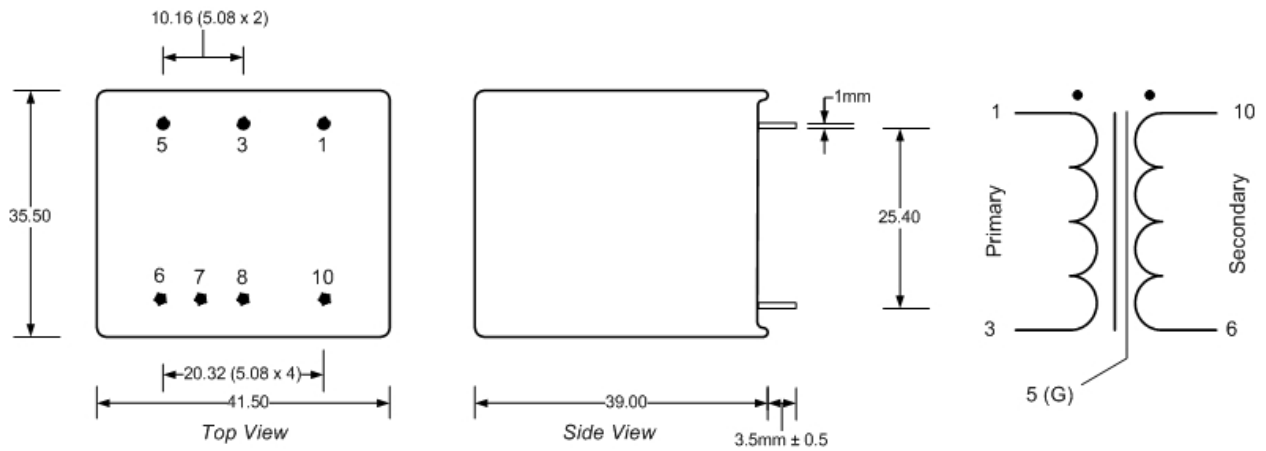
Outline drawing-VCT3253



Outline drawing-VCT3352



Outline drawing-VCT3452





Notes:

VCT3051 Packaging:

Carton - 200mm (7.9") x 155mm (6.1") x 48mm (1.9"), 30 pcs per carton
Bulk pack carton - 320mm (12.6") x 210mm (8.3") x 200mm (7.9")
240 pcs per bulk pack

VCT3154 Packaging:

Carton - 200mm (7.9") x 155mm (6.1") x 48mm (1.9"), 30 pcs per carton
Bulk pack carton - 320mm (12.6") x 210mm (8.3") x 200mm (7.9")
240 pcs per bulk pack

VCT3253 Packaging:

Carton - 200mm (7.9") x 155mm (6.1") x 48mm (1.9"), 30 pcs per carton
Bulk pack carton - 320mm (12.6") x 210mm (8.3") x 200mm (7.9")
240 pcs per bulk pack

VCT3352 Packaging:

Carton - 200mm (7.9") x 155mm (6.1") x 48mm (1.9"), 24 pcs per carton
Bulk pack carton - 320mm (12.6") x 210mm (8.3") x 200mm (7.9")
192 pcs per bulk pack

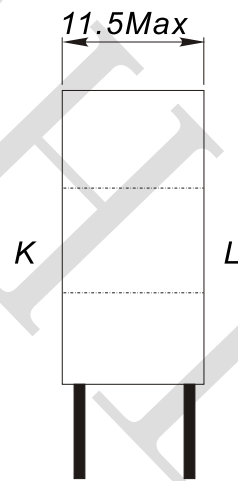
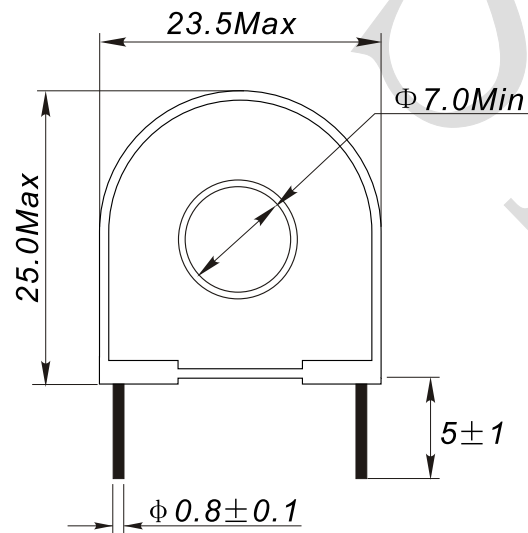
VCT3452 Packaging:

Carton - 200mm (7.9") x 155mm (6.1") x 48mm (1.9"), 16 pcs per carton
Bulk pack carton - 320mm (12.6") x 210mm (8.3") x 200mm (7.9")
128 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 shinhom@globalsources.com or the address below.

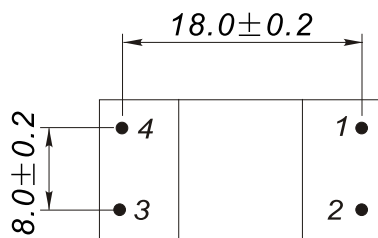
Rev.	Description	Date
A0	New release	2015.06.30

1. PHYSICAL CHARACTERISTICS (mm)



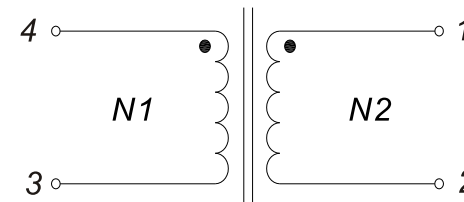
Left view

K: Shell side
L: potting side



Bottom view

2. ELECTRONICAL SCHEMATIC



3. ELECTRONICAL SPECIFICATIONS

DCR: N1: 80Ω Max

N2: 80Ω Max

Rated current ratio: 1:1

Rated pri current: 2mA

Rated sec current: 2mA

Phase error at rated current range: <10'

Ratio error at fixed point: <0.1%

Linear range: 5~120%

Hi-Pot: 3.0KV/1mA/1min

Insulation voltage: 500V/100MΩ Min

Operating Temperature: -25°C to +75°C

Storage Temperature: -40°C to +85°C

NOTES:

Temp 20°C 48%RH

RoHS Compliant

NAME:	Voltage Transformer		
CUSTOMER P/N:		DATE:	2015-06-30
SHINHOM P/N:	VT010-80	REV:	A0
		PAGE	
DRAWN BY	CHECKED BY	APPROVE BY	



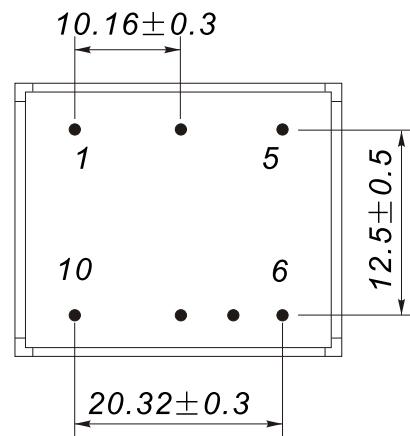
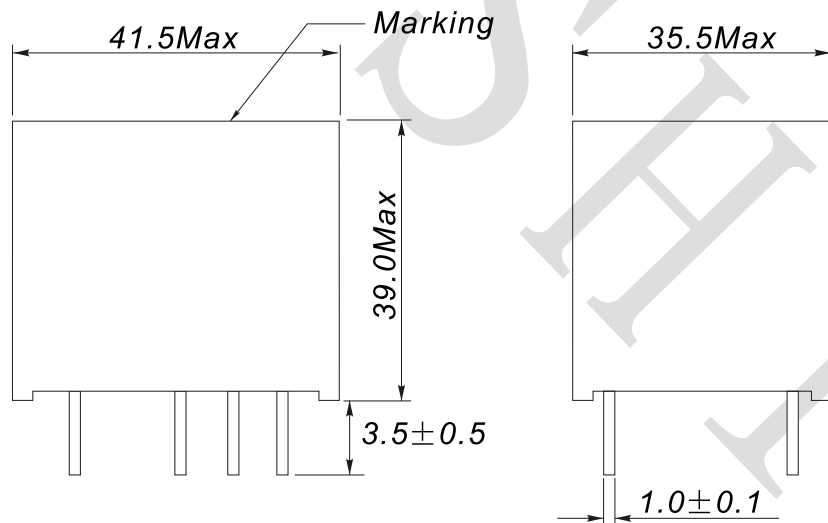
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Http://www.shinhom.com
E-mail:shinhom@globalsources.com
sales@shinhom.com.cn
NO. 8, Yanta Northern Road, Xi'an Shaanxi Pro. China

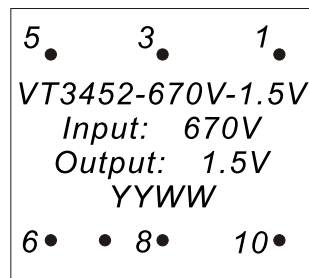


1. PHYSICAL CHARACTERISTICS (mm)

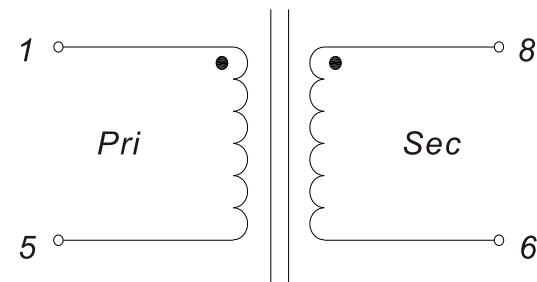


Bottom view

Marking



2. ELECTRONICAL SCHEMATIC



3. ELECTRONICAL SPECIFICATIONS

- Input voltage: 670V
- Output voltage: 1.5V
- Excitation current: 0.5mA Max
- Accuracy class: 0.2
- Phase error: ≤20' @670V
- Linearity: 5% to 120% @670V
- Isolation voltage: 2500Vac, 1min
- Dielectric resistance: 100MΩ, 500Vdc
- Operating temperature: -25°C to +55°C

NOTES:

Temp 20°C 48%RH
RoHS Compliant

NAME:	Voltage transformer		
CUSTOMER P/N:		DATE:	2014-01-27
SHINHOM P/N:	VT3452-670V-1.5V	REV:	A0 PAGE
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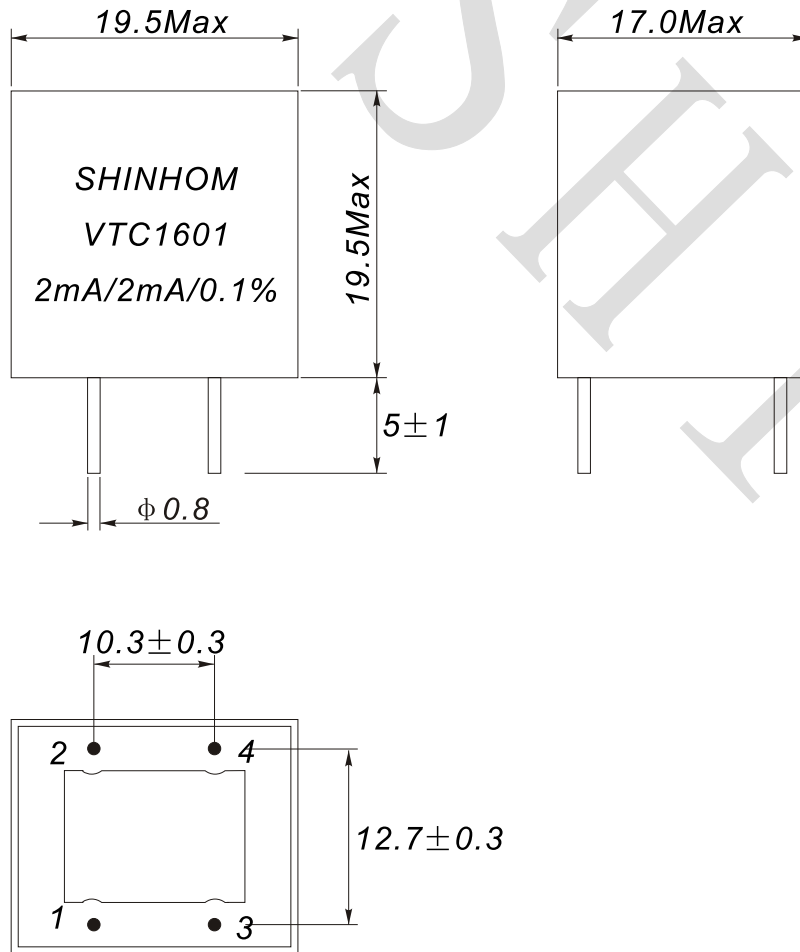


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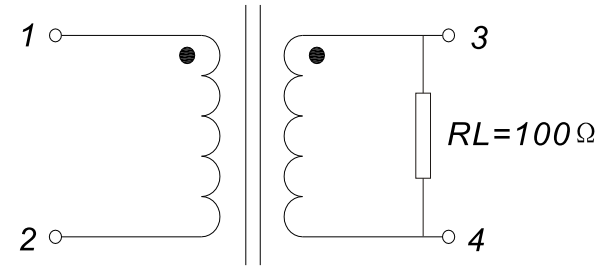
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1. PHYSICAL CHARACTERISTICS (mm)



2. ELECTRONICAL SCHEMATIC



3. ELECTRONICAL SPECIFICATIONS

- Rated pri voltage: 100, 100√3, 150, 220, 300, 380
- Pri winding resistance: 430Ω Max
- Rated current ratio of the current transformer: 2mA/2mA
- Secondary load resistor: 100Ω
- Rated secondary voltage: 100mV(200mV)
- Linearity: 0.1% @ RL ≤ 100Ω
- Accuracy: 1% @ RL ≤ 100Ω
- Hi-Pot: 2.5KV, 1mA, 5S
- Insulation resistance: DC500V/100MΩ Min
- Operating temperature: -40°C to +85°C
- Storage temperature: -45°C to +90°C

NOTES:

Temp 20°C 48%RH
RoHS Compliant

NAME:	Potential Transformer		
CUSTOMER P/N:	PT013200PP07	DATE:	2013-12-13
SHINHOM P/N:	VTC1601-2mA-2mA	REV: A0	PAGE
DRAWN BY	CHECKED BY	APPROVE BY	



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