

TV0815-1 Microminiature Precision AC Voltage Transformer

LI072V4/2016

1. Features:

① This component has a miniature size and high precision. It is capable of being directly soldered onto a PCB, is easy to use, and has an elegant outline.

⁽²⁾ This component is fully encapsulated and has strong mechanical and environmental endurance, strong dielectric strength, and is safe and reliable.

2. Ambient Conditions:

- (1) Ambient temperature: $-55^{\circ}C \sim +85^{\circ}C$;
- (2) Relative humidity: $\leq 90\%$ at 40°C;
- ③ Atmospheric pressure: 860~1060mbar(about 650~800mmHg).
- 3. Operating Frequency Range: 20Hz~20kHz
- 4. Insulation Thermal Class: Class B (130°C)

5. Safety Features:

- (1) Dielectric resistance: >1000M Ω in normal condition;
- ② Insulation withstand voltages: 2KV 50Hz/1min;
- ③ Fire retardancy: In conformity with UL94-V0.



7. Typical Application and Performance Parameters:

TV0815-1 is a current-mode voltage transformer, the typical application is shown in Figure 2

20 6.5

and Figure 3, and the performance parameters are shown in the table below.



Usage	Model	Input Voltage	Output Voltage	Phase Shift	Non-linearity	Linear Range	Rated Current
Used as in Fig. 2	TV0815-1	≤1000Vac	≤0.5Vac	≤30'	≤0.2%	1.5 times of the rated value 2 times of the rated value	· 2mA/2mA
	TV0815-1M		≤0. 75Vac	≤40'	≤0.25%		
Used as in Fig. 3	TV 0815-1	≤1000Vac	≤1/2 IC's power supply	≤5'	≤0.1%		
	TV0815-1M			≤5'	≤0.1%		

8. Attention:

This voltage transformer model is a current-type transformer. Therefore, an open circuit is not permitted in the secondary circuit, and no fuse should be connected in the secondary circuit.



BingZi

TU0815-1



www.bingzi.com

TV1005-1M Microminiature Precision AC Voltage Transformers

LI039V1/2008-EN

1. Features:

① This component has a miniature size and high precision. It is capable of being directly soldered onto a PCB, is easy to use, and has an elegant outline.

⁽²⁾ This component is fully encapsulated and has strong mechanical and environmental endurance, strong dielectric strength, and is safe and reliable.

2. Ambient Conditions

- ① Ambient temperature: -55°C~+85°C;
- (2) Relative humidity: $\leq 90\%$ at 40°C;
- ③ Atmospheric pressure: 860~1060mbar(about 650~800mmHg).
- 3. Operating Frequency Range: 20Hz~20kHz
- 4. Insulation Thermal Class: Class B (130°C)

5. Safety Features:

- (1) Dielectric resistance: >1000M Ω in normal condition;
- ② Insulation withstand voltages: 2KV 50Hz/1min;
- ③ Fire retardancy: In conformity with UL94-V0.

6. Outline Drawing, Installation Dimension and Coil Diagram(tolerance ± 0.3 mm)



7. Typical Application and Technical Parameters

TV1005-1M is actually a current-type voltage transformer. There are two typical applications shown in Fig.1 and Fig.2, respectively. The parameters are listed in Table 1.



Usage	Input Voltage	Output Voltage	Phase Shift	Non Linearity	Linear Range	Rated Current	Withstand Voltage
Used as in Fig. 1	≤1000Vac	≤0.75Vac	≤15'	≤0.2%	1.5 times of the rated value	2 1/2 1	> 20001/
Used as in Fig. 2	≤1000Vac	≤1/2 IC's power supply	≤5'	≤0.1%	2 times of the Rated value	2mA/2mA	≥2000∨

8. Attention:



TV1013 Series Microminiature Precision AC Voltage Transformers

LI040V1/2008-EN

1. Features:

① This component has a miniature size and high precision. It is capable of being directly soldered onto a PCB, is easy to use, and has an elegant outline.

⁽²⁾ This component is fully encapsulated and has strong mechanical and environmental endurance, strong dielectric strength, and is safe and reliable.

2. Ambient Conditions:

(1) Ambient temperature: $-55^{\circ}C \sim +85^{\circ}C$;

(2) Relative humidity: $\leq 90\%$ at 40°C;

③ Atmospheric pressure: 860~1060mbar(about 650~800mmHg).

- 3. Operating Frequency Range : 20Hz~20kHz
- 4. Insulation Thermal Class: Class F (155°C)

5. Safety Features:

- (1) Dielectric resistance: >1000M Ω in normal condition;
- ② Insulation withstand voltages: 2KV 50Hz/1min;
- ③ Fire retardancy: In conformity with UL94-V0.
- 6. Outline Drawing, Installation Dimension and Coil Diagram(tolerance ± 0.3 mm)



7. Typical Application and Technical Parameters

TV1013 is actually a current-type voltage transformer. There are two typical applications shown in Fig.1 and Fig.2, respectively. The parameters are listed in Table 1.



Table 1:

Usage	Model	Input Voltage	Output Voltage	Phase Shift	Non Linearity	Linear Range	Rated Current	Withstand Voltage	
Used as in Fig.1	TV1013-1	≤1000Vac	≤0.5Vac	≤30'	≤0.2%	1.5 times of the rated value	2 4/2 4	> 2000V	
	TV1013-1M		≤0.625Vac	≤40'	≤0.25%				
Used as in Fig.2	TV1013-1	- ≤1000Vac	-100011	≤1/2 IC's	≤5'	≤0.1%	2 times of the	2mA/2mA	≥2000∨
	TV1013-1M		c power supply	≤5'	≤0.1%	rated value			

8. Attention:



4-Ø0.8

쇖

 ∞

2

16

6

3

Fig.1

OUT

18.1

10.16

1

TV1014-1M Microminiature Precision AC Voltage Transformer

LI182V1/2016

1. Features:

① This component has a miniature size and high precision. It is capable of being directly soldered onto a PCB, is easy to use, and has an elegant outline.

⁽²⁾ This component is fully encapsulated and has strong mechanical and environmental endurance, strong dielectric strength, and is safe and reliable.

2. Ambient Conditions

- (1) Ambient temperature: $-55^{\circ}C \sim +85^{\circ}C$;
- (2) Relative humidity: $\leq 90\%$ at 40°C;
- ③ Atmospheric pressure: 860~1060mbar(about 650~800mmHg).
- 3. Operating Frequency Range: 20Hz~20kHz
- 4. Insulation Thermal Class: Class B (130°C)

5. Safety Features:

- (1) Dielectric resistance: >1000M Ω in normal condition;
- ② Insulation withstand voltages: 2KV 50Hz/1min;
- ③ Fire retardancy: In conformity with UL94-V0.
- 6. Outline Drawing, Installation Dimension and Coil Diagram (Figure 1) :(tolerance ± 0.3mm)
- 7. Typical Application and Performance Parameters:

TV1014 is a current-mode voltage transformer. Typical applications are shown in Figure 2 and

Figure 3 below. The performance parameters are shown in the table below.



Usage	Model	Input Voltage	Output Voltage	Load	Phase Shift	Non-li nearity	Linear Range	Rated Current	
Used as in Fig. 2	TV1014-1 M	≤1000Vac	≤0.75Vac	300Ω	≤20'	≤0.2%	2 times of the rated value		
Used as in Fig. 3	TV1014-1 M	≤1000Vac	≤1/2 IC's power supply	300Ω	≤5'	≤0.1%	2 times of the rated value	2.5mA/2.5mA	

8. Attention:



TV1115-1M Microminiature Precision AC Voltage Transformer

LI090V2/2016

1. Features:

① This component has a miniature size and high precision. It is capable of being directly soldered onto a PCB, is easy to use, and has an elegant outline.

⁽²⁾ This component is fully encapsulated and has strong mechanical and environmental endurance, strong dielectric strength, and is safe and reliable.

2. Ambient Conditions

- (1) Ambient temperature: $-55^{\circ}C \sim +85^{\circ}C$;
- (2) Relative humidity: $\leq 90\%$ at 40°C;
- ③ Atmospheric pressure: 860~1060mbar(about 650~800mmHg).

3. Operating Frequency Range: 20Hz~20kHz

4. Insulation Thermal Class: Class B (130°C)

5. Safety Features:

- (1) Dielectric resistance: >1000M Ω in normal condition;
- ② Insulation withstand voltages: 3KV 50Hz/1min;
- ③ Fire retardancy: In conformity with UL94-V0.
- 6. Outline Drawing, Installation Dimension and Coil Diagram (Figure 1) :(tolerance ± 0.3mm)

7. Typical Application and Performance Parameters:

TV1115 is a current-mode voltage transformer, the typical application is shown in Figure 2 and



Usage	Model	Input Voltage	Output Voltage	Phase Shift	Non-linearity	Linear Range	Rated Current
Used as in Fig. 2	TV1115-1M	≤1000Vac	\leq 3Vac	≤30'	≤0.2%	1.5 times of the rated value	2m
Used as in Fig. 3	TV1115-1M	≤1000Vac	≤1/2 IC's power supply	≤5'	≤0.1%	2 times of the rated value	2mA/2mA

8. Attention:

This voltage transformer model is a current-type transformer. Therefore, an open circuit is not permitted in the secondary circuit, and no fuse should be connected in the secondary circuit.



18

o 3

OUT

20

4

2

12.7 19

21



4- Φ0.8mm银柱



TV1907G Microminiature High Withstand Voltage Precision AC Voltage Transformer

LI181V1/2016

1. Features:

① This component has a miniature size and high precision. It is capable of being directly soldered onto a PCB, is easy to use, and has an elegant outline.

② This component is fully encapsulated and has strong mechanical and environmental endurance, strong dielectric strength, and is safe and reliable.



(Figure 1) : (tolerance ± 0.5 mm)

7. Typical Application Performance Parameters:

TV1907G-1 is a current-mode voltage transformer, the typical application is shown in Figure 2

and Figure 3, and the performance parameters are shown in the below table.



Usage	Input Voltage	Output Voltage	Phase Shift	Non-linearity	Linear Range	Rated Current	Withstand Voltage
Used as in Fig. 2	≤4000Vac	\leq 2.5Vac	≤30'	≤0.2%	1.5 times of the rated value	5mA/5mA	≥8000V
Used as in Fig. 3	≤4000Vac	≤1/2 IC's power supply	≤5'	≤0.1%	2 times of the rated value	5mA/5mA	≥8000V

8. Attention: