

# TA0813 Series Vertical Type Microminiature Pulse Current Transformers

LI056V5/2016

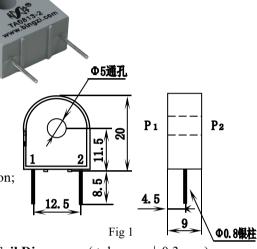
## 1. Features:

- (1) Vertical core-through, printed circuit board directly soldered and installed;
- 2 Small size, high frequency, beautiful appearance;

③ Fully enclosed, good mechanical and environmental resistance, strong voltage isolation capability .

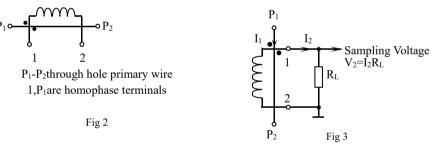
## 2. Ambient Conditions:

- 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: 2kHz~200kHz
- **4. Insulation Thermal Class:** Class B (130°C)
- 5. Safety Features:
- (1) Insulation resistance: >1000M $\Omega$  in normal condition;
- 2 Insulation withstand voltages: 6KV 50Hz/1min;
- ③ Fire retardancy: In conformity with UL94-V0.



## 6. Outline Drawing, Installation Dimension and Coil Diagram: (tolerance $\pm 0.3$ mm)

- ① Outline drawing and installation dimensions are shown in Figure 1:
- ② The coil diagram is shown in Figure 2.



7. Typical Application and Technical Parameters: (tolerance  $\pm 0.3$ mm) See the table below for performance parameters when applied as shown in Figure 3

Model	Rated Input Current	Rated Output Current	Rated Sampling Resistance	Rated Sampling Voltage	Non-linearity
TA0813-1	20A	100mA	25Ω	2.5V	≤2%
TA0813-2	20A	40mA	125Ω	5V	≤2%
TA0813-3	20A	20mA	500Ω	10V	≤2%

# 8. Attention:

① Connect the primary winding of the current transformer in series with the measured current loop. Operate the secondary winding in a near short-circuit mode.

2 Do not allow the secondary winding of the current transformer to be open-circuited. Do not install any fuse on the secondary winding.



# **TA1526 Series Round-type Pulse Current Transformers**

LI058V1/2008

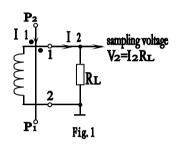
#### 1. Features:

- (1) Being able to be directly soldered on PCB, perfect outline.
- 2 High frequency.

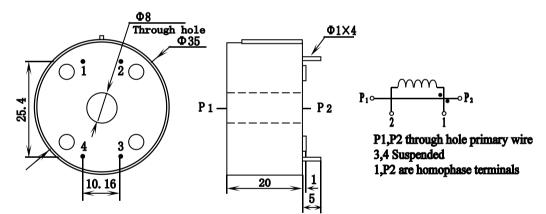
③ Completely sealed, strong mechanical and environmental endurance, strong dielectric strength, safe and reliable.

#### 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 $\sim$ 1060mbar(about 650 $\sim$ 800mmHg).
- 3. Operating Frequency Range: 2kHz~200kHz
- 4. Insulation Thermal Class: Class B (130°C)
- 5. Safety Features:
- (1) Insulation resistance: >1000M $\Omega$  in normal condition;
- 2 Insulation withstand voltages: 6KV 50Hz/1min;
- ③ Fire retardancy: In conformity with UL94-V0.



#### 6. Outline Drawing, Installation Dimension and Coil Diagram: (tolerance $\pm 0.3$ mm)



#### 7. Typical Application and Technical Parameters:

Model	Rated Input Current	Rated Output Current	Rated Sampling Resistance	Rated Sampling Voltage	Non Linearity	Withstand Voltage
TA1526-1	50A	250mA	30Ω	7.5V	≤2%	≥6KV
TA1526-2	50A	100mA	150Ω	15V	≤2%	≥6KV
TA1526-3	50A	50mA	600Ω	30V	≤2%	≥6KV

#### 8. Attention:

① Connect the primary winding of the current transformer in series with the measured current loop. Operate the secondary winding in a near short-circuit mode.

② Do not allow the secondary winding of the current transformer to be open-circuited. Do not install any fuse on the secondary winding.



# TA1931 Series Vertical Core-through AC Current Transformer

LI143V2/2016

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#### 1. Features:

- ① Vertical core-through , beautiful appearance;
- 2 High frequency, fully enclosed, good mechanical and environmental resistance ;
- ③ Strong voltage isolation capability, safe and reliable ;
- ④ The plug-in piece is drawn out, and the connection is convenient and firm.

#### 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: 2kHz~200kHz

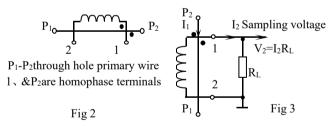
4. Insulation Thermal Class: Class B (130°C)

#### 5. Safety Features:

- (1) Insulation resistance: >1000M $\Omega$  in normal condition;
- ② Insulation withstand voltages: 6KV 50Hz/1min;
- ③ Fire retardancy: In conformity with UL94-V0.

## 6. Outline Drawing, Installation Dimension and Coil Diagram:( tolerance $\pm 0.5 mm$ )

- ① The outline drawing and installation dimensions are shown in Figure 1:
- <sup>(2)</sup> The coil diagram is shown in Figure 2:



#### 7. Typical Application and Performance Parameters:

Model	Rated Input Current	Rated Output Current	Rated Sampling Resistance	Rated Sampling Voltage	Non-linearity
TA1931-01	100A	1A	3Ω	3V	≤2%
TA1931-02	100A	0.5A	1 2Ω	6V	<u>≤2%</u>

#### 8. Attention:

① Connect the primary winding of the current transformer in series with the measured current loop. Operate the secondary winding in a near short-circuit mode.

2 Do not allow the secondary winding of the current transformer to be open-circuited. Do not install any fuse on the secondary winding.

Fig 1

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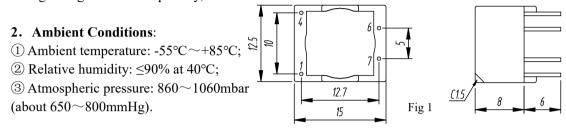
# **TA0510 Series Miniature Pulse Current Transformer with Busbar Built-in**

LI177V1/2016

## 1. Features:

(1) The printed circuit board is directly welded and installed, and the appearance is beautiful;

(2) Compact, high precision; fully enclosed, good mechanical and environmental resistance, strong voltage isolation capability, safe and reliable.



#### 3. Operating Frequency Range: 2kHz~200kHz;

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

#### 5. Safety Features:

(1) Insulation resistance: >1000M $\Omega$  in normal condition;

2 Insulation withstand voltages: 2.5KV 50Hz/1min;

③ Fire retardancy: In conformity with UL94-V0.

#### 6. Outline Drawing and Installation Dimension

- **Coil Diagram:** (tolerance  $\pm 0.3$ mm)
- ① Outline drawing and installation dimensions are shown in Figure 1:
- <sup>(2)</sup> The coil diagram is shown in Figure 2:

#### 7. Performance Parameters:

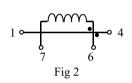
Obtain the sampling voltage directly with the resistance method as shown in Figure 3. The performance parameters are shown in the table below:

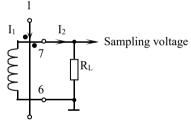
Model	Rated Input Current	Rated Output	Rated Sampling	Rated Sampling	Non- Linearity	Linear Range
TA0510-01	10A	0.2A	2Ω	0.4V	≤2%	$\geq 2$ times of the rated value
TA0510-02	10A	0.1A	8Ω	0.8V	≤2%	$\geq 2$ times of the rated value

## 8. Attention:

(1) Connect the primary winding of the current transformer in series with the measured current loop. Operate the secondary winding in a near short-circuit mode.

(2) Do not allow the secondary winding of the current transformer to be open-circuited. Do not install any fuse on the secondary winding.







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Fig 1

TA0714-01

# **TA0714 Series Miniature High Frequency Pulse Current Transformer with Busbar Built-in**

LI149V2/2016

#### 1. Features:

- (1) The busbar is built-in, and the printed circuit board is directly welded and installed;
- 2 Compact, high frequency, beautiful appearance;

③ Fully enclosed, good mechanical and environmental resistance, strong voltage isolation capability, and beautiful appearance . 2-ø1.3 15 24

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#### 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: 2kHz~200kHz

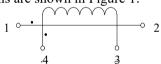
4. Insulation Thermal Class: Class B (130°C)

#### 5. Safety Features:

- 3.43 (1) Insulation resistance: >1000M $\Omega$  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±0.3mm)

- ① Outline drawing and installation dimensions are shown in Figure 1:
- (2) The coil diagram is shown in Figure 2:



1-2 through hole primary wire 1&4are homophase terminals



Model	Rated Input Current	Rated Output Current	Rated Sampling Resistance	Rated Sampling Voltage	Non Linearity
TA0714-01	20A	200mA	7.5Ω	1.5V	≤2%
TA0714-02	20A	100mA	25Ω	2.5V	≤2%

#### 7. Performance Parameters:

#### 8. Attention:

(1) Connect the primary winding of the current transformer in series with the measured current loop. Operate the secondary winding in a near short-circuit mode.

(2) Do not allow the secondary winding of the current transformer to be open-circuited. Do not install any fuse on the secondary winding.



# TA0916 Series Microminiature Precision Pulse Current Transformer with Bus Built-in

LI055V 5/20 16

## 1. Features:

1 The printed circuit board is directly welded and installed, and the appearance is beautiful;

② Small size, high precision; fully enclosed, good mechanical and environmental resistance,

strong voltage isolation capability, safe and reliable.

## 2. Ambient conditions:

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

(about 650~800mmHg).

## **3. Operating Frequency Range:** 2kHz~100k Hz

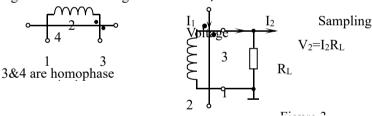
4. Insulation Thermal Class: Class B (130 °C)

#### 5. Safety Features:

- (1) Insulation resistance: >1000M $\Omega$  in normal condition;
- ② Insulation withstand voltages: 2.5KV 50Hz/1min;
- ③ Fire retardancy: In conformity with UL94-V0.

# 6. Outline Drawing, Installation Dimension and Coil Diagram : (tolerance $\pm 0.3$ mm)

- ① Outline drawing and installation dimensions are shown in Figure 1:
- ② The coil diagram is shown in Figure 2:



## 7. Typical Application and Technical Parameters:( tolerance $\pm 0.3$ mm )

When the sampling voltage is directly obtained by the resistance method (as shown in Figure 3), the performance parameters are shown in the table below.

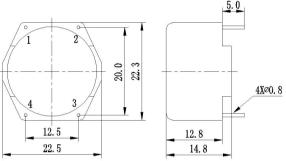
Model	Rated Input Current	Rated Output Current	Rated Sampling Resistance R <sub>L</sub>	Rated Sampling Voltage	Non-linearity	Linear Range
TA0916-01	2A	4mA	1000Ω	4V	≤2%	$\geq$ 1.5 times of the rated value
TA0916-02	2A	2mA	4000Ω	8V	≤1.5%	≥2 times of the rated value

## 8. Attention:

① Connect the primary winding of the current transformer in series with the measured current loop. Operate the secondary winding in a near short-circuit mode.

<sup>(2)</sup> Do not allow the secondary winding of the current transformer to be open-circuited. Do not install any fuse on the secondary winding.





Figure



# TA 3006 Series Bus Built-in Current Transformer

LI146V2/2016

## 1. Features:

- ① The busbar is built-in , and the printed circuit board is directly welded and installed;
- 2 High frequency, fully enclosed, good mechanical and environmental resistance;
- ③ Fully enclosed, good mechanical and environmental resistance;
- ④ Strong voltage isolation capability, safe and reliable, beautiful appearance.

## 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).

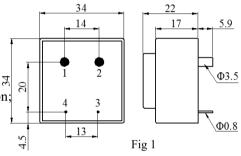
## 3. Operating Frequency Range: 2kHz~200kHz

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

## 5. Safety Features:

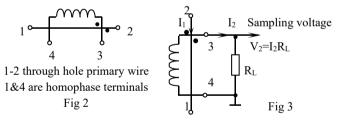
- (1) Insulation resistance: >1000M $\Omega$  in normal condition;
- ② Insulation withstand voltages: 4KV 50Hz/1min;
- ③ Fire retardancy: In conformity with UL94-V0.





# 6. Outline Drawing, Installation Dimension and Coil Diagram: ( $tolerance\pm 0.5mm$ )

- (1) Outline drawing and installation dimensions are shown in Figure 1 :
- (2) The coil diagram is shown in Figure 2 :



## 7. Typical Application and Performance Parameters:

Model	Rated Input Current	Rated Output Current	Rated Sampling Resistance	Rated Sampling Voltage	Non-linearity
TA3006-01	70A	0.35A	20Ω	7.0V	$\leq$ 3 %

## 8. Attention:

① Connect the primary winding of the current transformer in series with the measured current loop. Operate the secondary winding in a near short-circuit mode.

2 Do not allow the secondary winding of the current transformer to be open-circuited. Do not install any fuse on the secondary winding.