



Thousand Hundred Industrial CO.,LTD.

| | | | |
|--------------------|---------------------|------------------|--------------|
| Customer Name | | Drawn Date | 07/03/08 |
| Description | Current Transformer | Sample Quantity | 3PCS |
| Customer Part Name | | Customer DWG.No. | |
| T.H. Part No. | PT013200PP03 | T.H. Sample No. | 2279A |

Mechanical Dimensions in mm

Front view: Shows primary winding (1, 2), secondary winding (3, 4), and a 100Ω resistor. Dimensions: height 20.4mm, lead diameter $\phi 0.8 \pm 0.1$ mm, lead length 6.5 ± 0.5mm.

Top view: Shows the transformer footprint with dimensions: width 20mm, height 18.6mm, and a central hole diameter of 10.3mm.

Bottom view: Shows the transformer footprint with dimensions: width 20mm, height 12.7mm, and a central hole diameter of 10.3mm.

Top view label: TH PT01-3
I1/I2=1mA:1mA
50Hz 0.1Class

Mechanical Specifications:

International Tolerance(mm)

| | |
|--------|-------|
| 0~3 | ±0.1 |
| 3~6 | ±0.12 |
| 6~10 | ±0.15 |
| 10~18 | ±0.18 |
| 18~30 | ±0.20 |
| 30~50 | ±0.25 |
| 50~80 | ±0.30 |
| 80~120 | ±0.35 |

Test Circuit:

The diagram shows a transformer with primary winding $W_1(r_1)$ and secondary winding W_2 . The primary is connected to a resistor R_1 and a current source \dot{I}_0 . The secondary is connected to a load resistor R_L . The primary current is \dot{I}_1 and the secondary current is \dot{I}_2 . The primary voltage is \dot{V}_1 and the secondary voltage is $\dot{V}_2 = \dot{I}_2 R_L$. A note indicates r_1 is the primary winding resistance.

Photo:

| | |
|---|---|
| <p>China: No. 8 DongHuan 4th St. Chuang Ye 1st Rd. Jitigang, HuangJiang Town. Dongguan City. Guang Dong. China. Tel : +86-769-83367090 Fax : +86-769-83367590 E-mail:dgth@thic.net Http://www.thic.net</p> | <p>Taiwan: No.19.Lane 428,Sec 2.Chung Shan Rd.,Hukou Hsinchu Taiwan,R.O.C Tel : +886-3-599440(3 Line) E-mail : fp@thic.net</p> |
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Electrical Specifications

| | |
|--|---|
| Rated Primary Voltage V_1 (V) : | 100 , $100\sqrt{3}$, 150 , 220 , 380 , 300 , |
| Primary Winding resistance r_1 (Ω) | 430MAX |
| Corresponding primary additional resistor | $R_1 = (V_1 / I_1) - r_1$ |
| Rated current ratio of the current transformer | 1mA/1mA (2mA/2mA) |
| Secondary load resistor R_L (Ω) | 100 Ω |
| Rated secondary voltage V_2 (V) | 100 mV(200mV) |
| Dielectric withstanding Voltage (Hi-pot) | 2500V/1mA/1SEC. |
| Accuracy (Linearity) | 0.1 |

Mechanical Specifications

| | |
|-----------------|-----------------------------|
| CUP | PBT |
| Encapsulant | epoxy |
| Output terminal | 4-pin $\Phi 0.8 \times 6.5$ |
| Approx.Weight | 17g |

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Measured Result:

| Sample No. | Vout(mV) | | | DCR(Ω) | DCR(Ω) | | |
|------------|-------------|--|--|-----------------|-----------------|--|--|
| SPEC | 1-2 | | | 1-2 | 3-4 | | |
| | 196 \pm 2 | | | 430MAX | 430MAX | | |
| 1 | 197.22 | | | 367 | 369 | | |
| 2 | 196.78 | | | 368 | 374 | | |
| 3 | 196.83 | | | 370 | 372 | | |
| \bar{X} | 196.94 | | | 368.3 | 371.6 | | |
| MAX | 197.22 | | | 374 | 374 | | |
| MIN | 196.78 | | | 367 | 369 | | |

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