CUSTOMER		PART NAME	Current-type Voltage Transformer
FILE NUMBER	ZM20121220	PART TYPE	ZMPT101K 2mA/2mA

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五、Material list:

NO.	Material	Spec, model	UL code	SGS
1	Nanocrystalline core	Ø9.5×15×10	——	yes
2	Core box	PBT	E332375	yes
3	Tape	8mm Flame retardant, Environmental protection	E165111	yes
4	Enameled wire (Winding wire)	2UEW、Ø0.07	E258243	yes
5	Outer covering	Environmental protection	E238981	yes
6	Fills and seals material	TXH-9201-10 epoxy resin insulating compound	E196959	yes

六、Typical test data:

Inspection item		Inspection Device		Inspection Requirements			
Appearance Inspection		Visual		No crack, no scratch, no stain			
Pin Length(mm)		Vernier Caliper		3.5±0.5			
Same Polarity		HESE Transformer calibrator		Pin 1 and Pin 3			
Insulation Resistance		MN4231B Hi-pot Tester		1GΩ@500Vdc			
Dielectric Strength		MN4231B Hi-pot Tester		4000V, 1min, 1mA			
Output Ratio Error		HESE Transformer calibrator		≤0.2%(RL=50Ω)			
Phase Error		HESE Transformer calibrator		≤20'(RL=50Ω)			
Test Point		% of input 2mA, 50Ω					
		5	20	50	80	100	120
1#	Ratio error(%)	-0.085	-0.110	-0.110	-0.125	-0.128	-0.128
	Phase error(')	26.00	21.00	17.00	14.00	13.00	11.30
2#	Ratio error(%)	-0.080	-0.106	-0.111	-0.110	-0.114	-0.115
	Phase error(')	22.00	19.70	15.80	13.00	11.80	10.90
3#	Ratio error(%)	-0.069	-0.100	-0.108	-0.112	-0.119	-0.120
	Phase error(')	24.00	21.00	17.00	15.00	13.00	12.40
4#	Ratio error(%)	-0.047	-0.075	-0.076	-0.083	-0.090	-0.092
	Phase error(')	19.00	17.32	15.00	13.00	12.20	11.30
5#	Ratio error(%)	-0.080	-0.110	-0.114	-0.119	-0.125	-0.124
	Phase error(')	25.00	21.00	17.00	14.00	13.00	11.80

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3. Insulation Resistance

Current transformer primary winding and the secondary winding to ground insulation resistance between≥1GΩ.

4. Appearance Required

mark clearly and accurately； model specifications marked correct； transformer no surface dirt ； cited needle size, length, location etc. In line drawings.

5. Package and Transport

Both in dependent of the small package but also the overall package, transportation of productions to ensure that intact ,but also convenient to inventory.

6. Storage

Current transformer should be stored at room temperature -45~85℃， relative humidity less than 90%(25℃) room, and in the air should not cause corrosion of the harmful gases and other harmful media environment.

7. UL certification and Label photo:

This product complies with UL certification, certification number is E365876

Finished product photo:



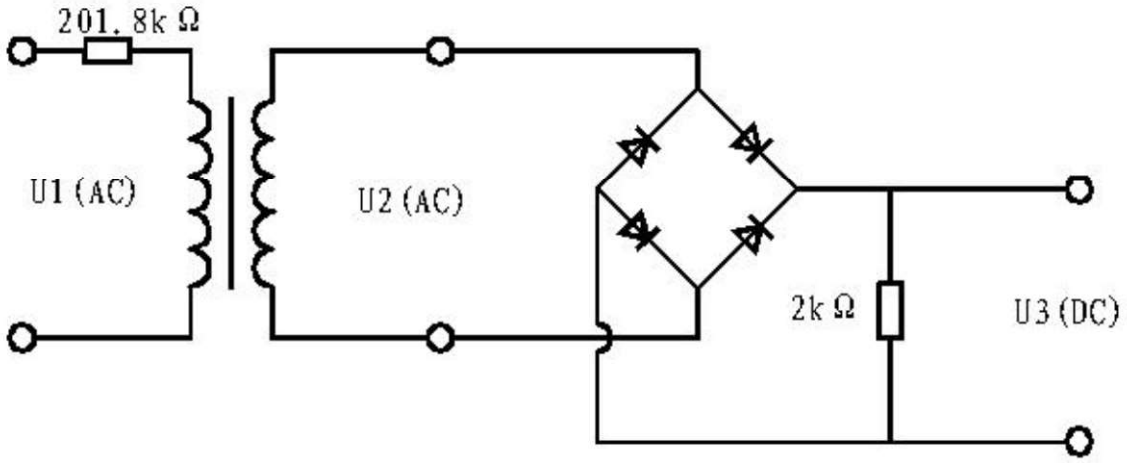


CUSTOMER		PART NAME	Current-type Voltage Transformer

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三、Technical Requirements：

Test Circuit and test results



SI No.	Mains AC input voltage	ZMPT101K 2mA/2mA
1	100V	0.864
2	120V	1.038
3	140V	1.213
4	160V	1.388
5	180V	1.563
6	200V	1.739
7	220V	1.915
8	240V	2.092
9	260V	2.270
10	280V	2.450
11	300V	2.627
12	310V	2.716

Note: When primary current-limiting resistor is 201.8kΩ， secondary sampling resistor is 2KΩ，

primary voltage is 220V, Then , the output voltage is 1.915V±1%.

四、Electrical Performance Requirement：

1. Frequency Dielectric Strength

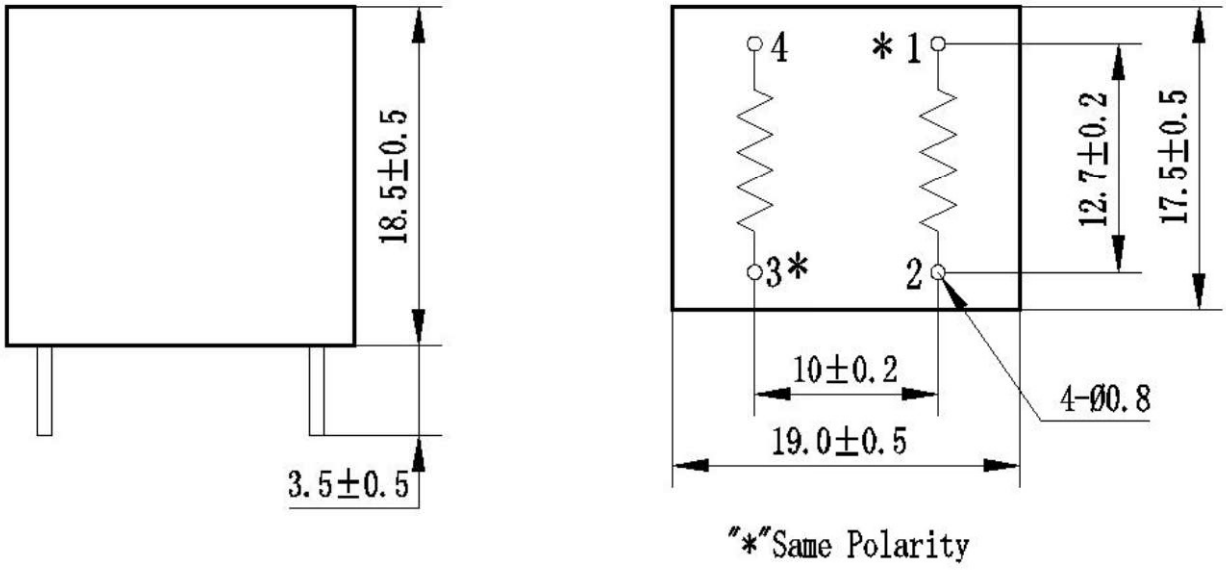
Primary winding and secondary windings 4KV 1mA ,1 min test without breakdown, arcing and other undesirable phenomena.

2. In-turn Insulation Strength

Open the secondary coil ,a coil through to the rated current and rated frequency to maintain a min , no in-turn insulation within the transformer damage.

FILE NUMBER	ZM20121220	PART TYPE	ZMPT101K 2mA/2mA

一. Dimensions：



Note 1:Tolerances in accordance with IT12/2

2: Silk screen content according to customer requirements

3：Unit: mm

二、The Electrical Parameters:

Primary current（A）		Secondary Current (mA)	Accuracy Class	Load Resistance（Ω）	Temperature（℃）	Humid（25℃）
Basic Current (mA)	Maximum Current (mA)					
2	8	2	0.2	0-400	-40~85	<90%

CUSTOMER		PART NAME	Current-type Voltage Transformer

SPECIFICATION

CUSTOMER: Business India Pvt Ltd

PART NAME: Current-type Voltage Transformer

PART TYPE: ZMPT101K

PART RATIO: 2mA/2mA

CUSTOMER'S PART NO: _____

	"√"	CUSTOMER'S SEAL&SIGNATURE	Date	Note
FULL APPROVED				