

Mini Current Transformer

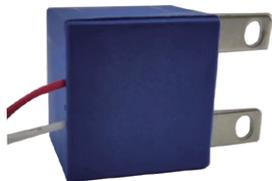
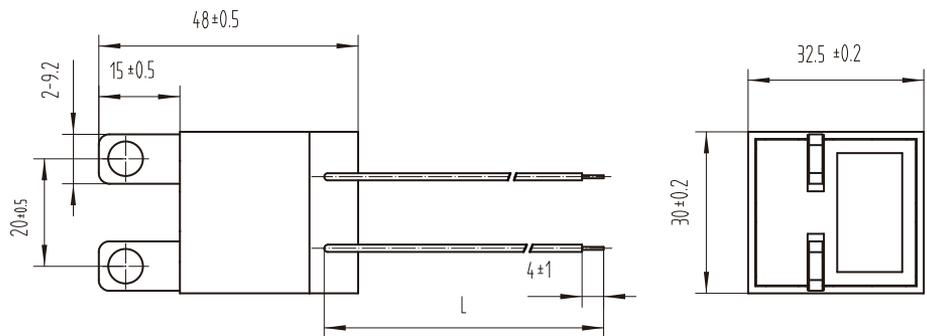
Loading type Current Transformer

- Suitable for a wide range of current (1.5A~120A)
- The holes on the primary lead bus-bar are standardized, can be fixed to the terminals of the electricity meters with standard bolts
- A variety of litz wire for choice, can be customized for special requirements
- Encapsulated with epoxy resin to ensure high dielectric strength
- Linear output current, high precision
- PBT flame retardant plastic casing

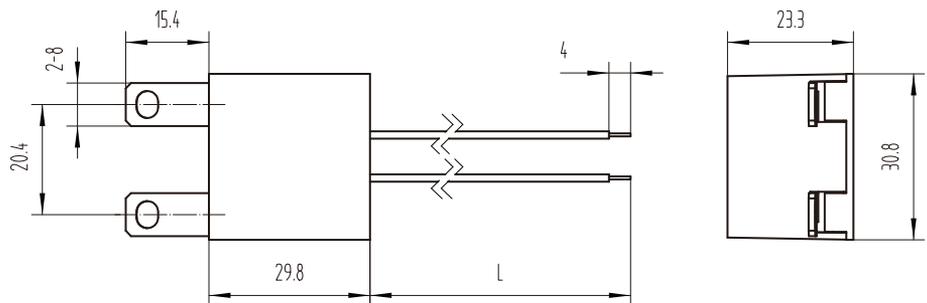
Product and Outline dimensions



HMCT-102

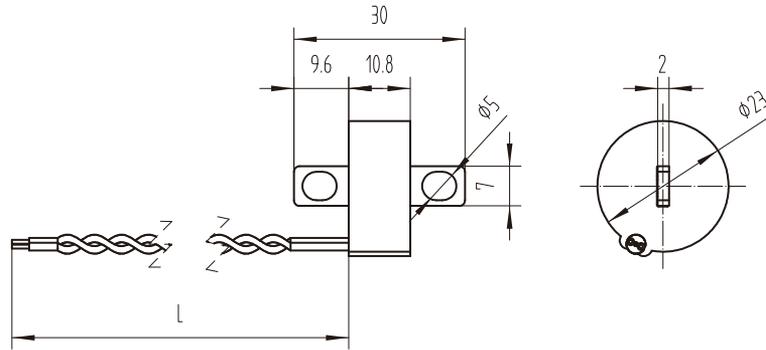


HMCT-103

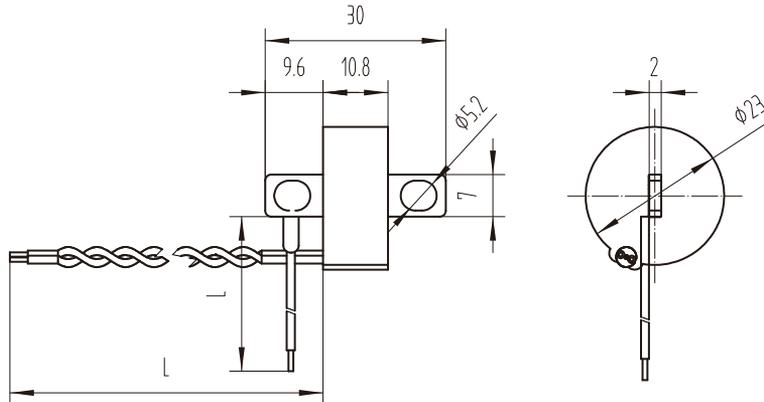




HMCT-116



HMCT-116-1



Characteristics

Model	Type	Rated primary current (A)	Max primary current (A)	Rated secondary current (mA)	Rated sampling voltage (mV)	Load Resistance(Ω)	Accuracy Class
HMCT-102	5-30A/5mA	5A	30A	5.0mA	100mV	20Ω	0.1
	10-60A/10mA	10A	60A	10mA	100mV	10Ω	0.1
	20-100A/20mA	20A	100A	20mA	100mV	5Ω	0.1
	20-120A/10mA	20A	120A	10mA	100mV	10Ω	0.1
HMCT-103	1.5-6A/5mA	1.5A	6A	5.0mA	100mV	20Ω	0.1
	1.5-6A/7.5mA	1.5A	6A	7.5mA	75mV	10Ω	0.1
HMCT-116	1.5-6A/0.75mA	1.5A	6A	0.75mA	7.5mV	10Ω	0.2
	5-60A/2.5mA	5.0A	60A	2.5mA	25mV	10Ω	0.1/0.2
HMCT-116-1	1.5-6A/0.75mA	1.5A	6A	0.75mA	7.5mV	10Ω	0.2
	5-60A/2.5mA	5.0A	60A	2.5mA	25mV	10Ω	0.1/0.2

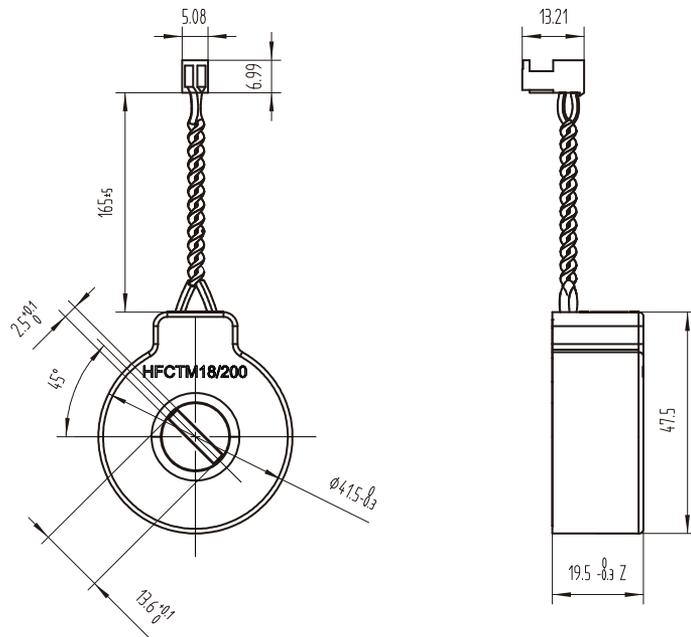
Bus-bar type Current Transformer

- Various mechanical dimensions and different forms available
- Linear output current, high precision
- Compact size, light weight, easy for installation
- PBT flame retardant plastic casing
- Encapsulated with epoxy resin to ensure high dielectric strength

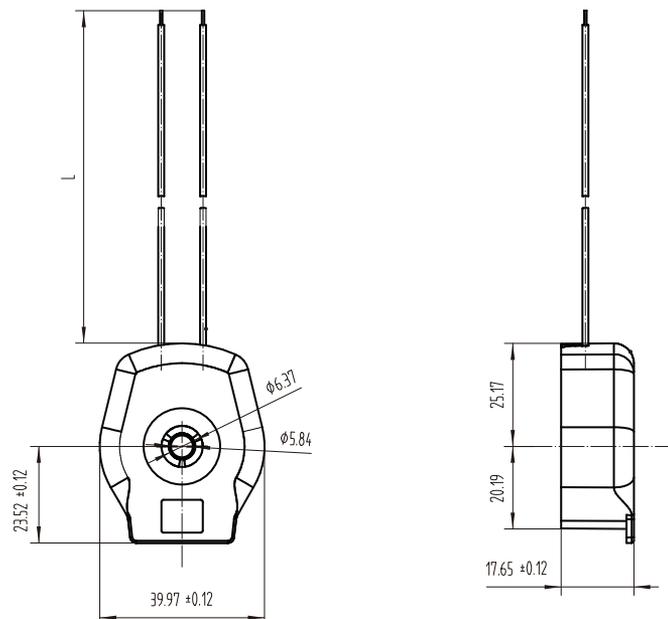
Product and Outline dimensions



HMCT2

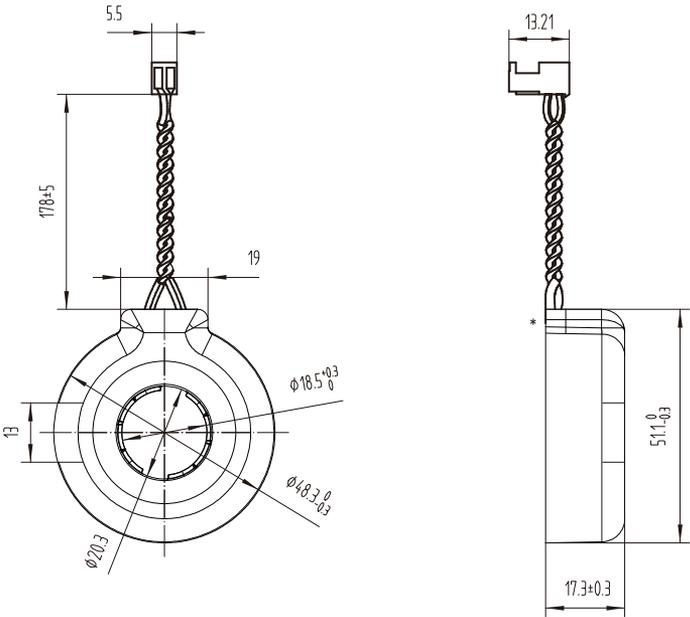


HMCT3





HMCT-061



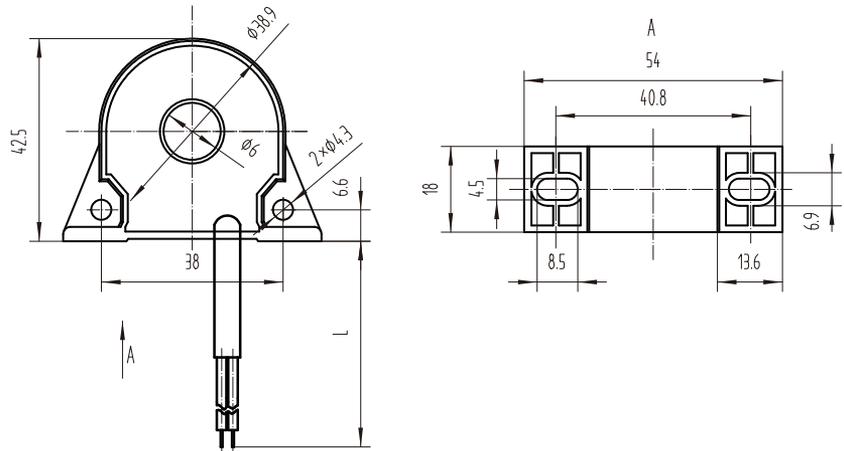
Characteristics

Model	Type	Rated primary current (A)	Max primary current (A)	Rated secondary current (mA)	Rated sampling voltage (mV)	Load Resistance (Ω)	Accuracy Class
HMCT2	30-120A/15mA	30A	120A	15mA	75mV	5 Ω	0.1
	30-200A/15mA	30A	200A	15mA	75mV	5 Ω	0.1
HMCT3	50-200A/16.7mA	50A	200A	25.0mA	37.5mV	1.5 Ω	0.1
	50-320A/16.7mA	50A	320A	16.7mA	25.0mV	1.5 Ω	0.1
HMCT-061	50-200A/25mA	50A	200A	25mA	41mV	1.64 Ω	0.1
	60-320A/30mA	60A	320A	30mA	49.2mV	1.64 Ω	0.1
	60-400A/30mA	60A	400A	30mA	49.2mV	1.64 Ω	0.1

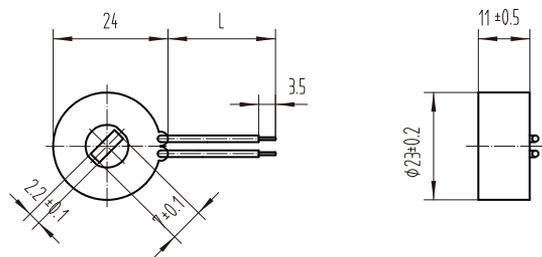
Product and Outline dimensions



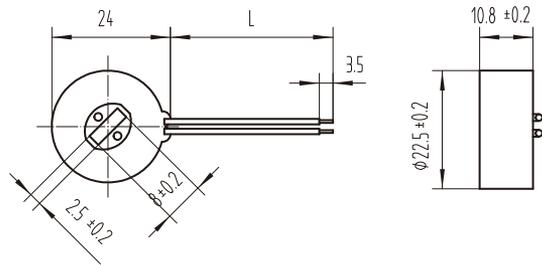
HMCT-009



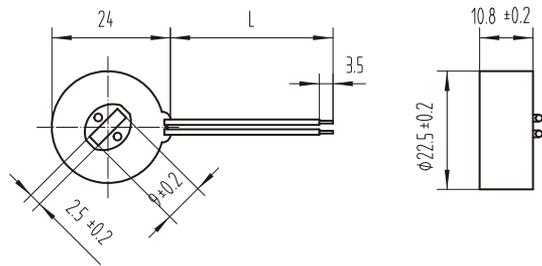
HMCT-016



HMCT-017



HMCT-018



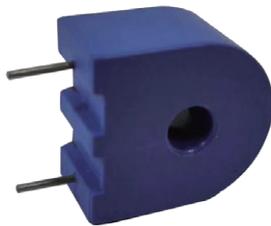
Characteristics

Model	Type	Rated primary current (A)	Max primary current (A)	Rated secondary current (mA)	Rated sampling voltage (mV)	Load Resistance (Ω)	Accuracy Class
HMCT-009	20A/100mA	20A	40A	100mA	500mV	5 Ω	0.5
	20-100A/20mA	20A	100A	20mA	200mV	10 Ω	0.1
	50-200A/25mA	50A	200A	25mA	250mV	10 Ω	0.1
HMCT-016	5-30A/5mA	5A	30A	5mA	100mV	20 Ω	0.2
	10-60A/5mA	10A	60A	5mA	100mV	20 Ω	0.1/0.2
HMCT-017 HMCT-018	10-100A/5mA	10A	100A	5mA	50mV	10 Ω	0.1/0.2

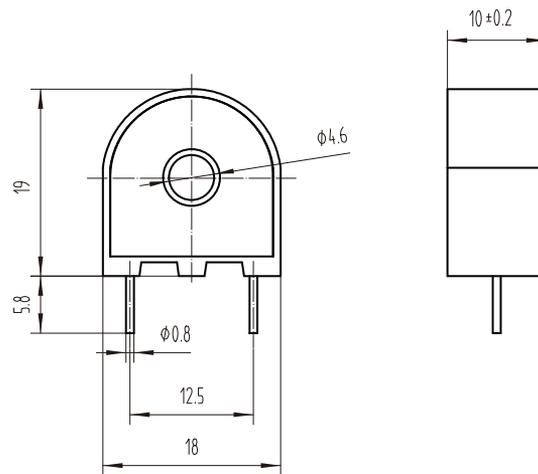
PCB-mount type Current Transformer

- Fully encapsulated with epoxy resin, resistant to harsh environments, high dielectric strength
- PCB-mount type
- The primary inputs could be PCB mounted, soft wire and tin-plated-copper-core wire
- Linear output current, high precision
- Compact size, light weight, easy for installation
- PBT flame retardant plastic casing

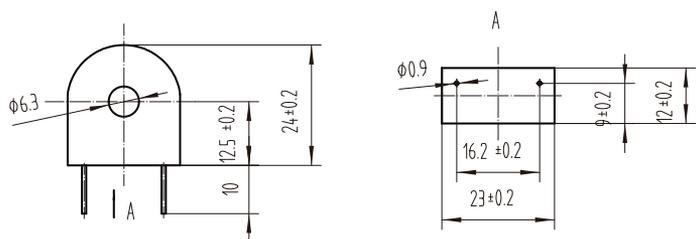
Product and Outline dimensions

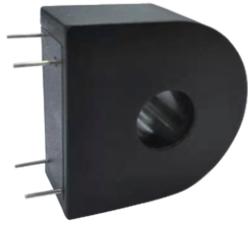


HMCT-226A

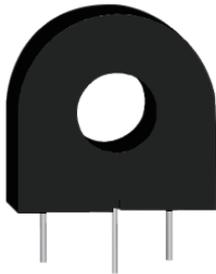
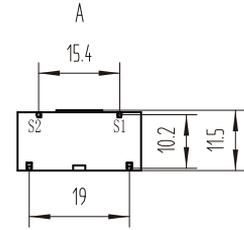
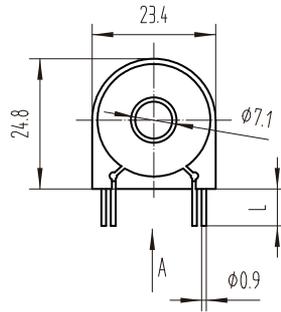


HMCT-226B

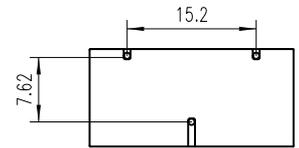
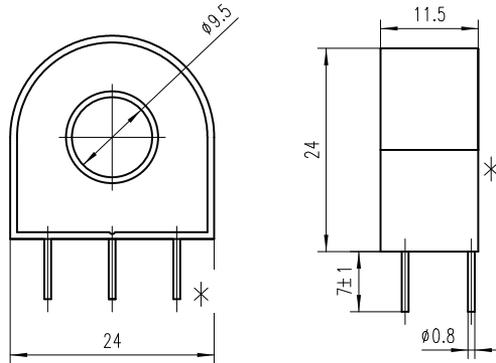




HMCT-406



HMCT221



Characteristics

Model	Type	Rated primary current (A)	Max primary current (A)	Rated secondary current(mA)	Rated sampling voltage(mV)	Load Resistance(Ω)	Accuracy Class
HMCT-226A	5A/5mA	5A	10A	5.0mA	100mV	20 Ω	0.2
	5A/2.5mA	5A	20A	2.5mA	50mV	20 Ω	0.2
HMCT-226B	5A/5mA	5A	20A	5.0mA	100mV	20 Ω	0.2
	5A/2.5mA	5A	30A	2.5mA	50mV	20 Ω	0.1/0.2
	20A/100mA	20A	24A	100mA	500mV	5 Ω	0.5
HMCT-406	5A/2.5mA	5A	40A	2.5mA	50mV	20 Ω	0.2
	5A/5mA	5A	20A	5.0mA	100mV	20 Ω	0.2
	10A/4mA	10A	40A	4.0mA	80mV	20 Ω	0.1
	20A/20mA	20A	48A	20mA	400mV	20 Ω	0.2
HMCT221	50A/20mA	50A	60A	20mA	400mV	20 Ω	0.1

Current type voltage Transformer

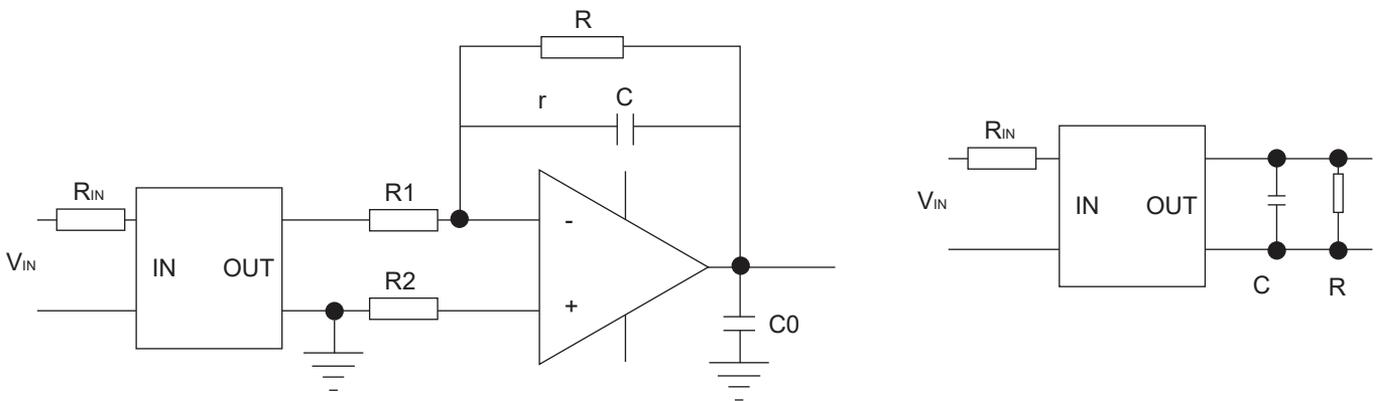
- PCB-mount type
- Very compact size, can be used directly as an electronic component
- High linearity, high precision, wide operating range
- PBT flame retardant plastic casing
- Fully encapsulated with epoxy resin, high dielectric strength, resistant to harsh environments

Application note of current type voltage transformer

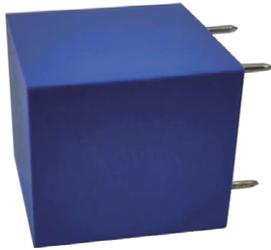
- PT series are miniature current type voltage transformers, are widely used in electric transmitters and power monitors etc., typical application diagrams are shown in Fig. 1 and Fig. 2. Input and output current ratio is 1: 1, maximum input current is 10mA, primary input voltage should be less than 1000Vac (connecting with current-limiting resistor). Ratio error: $\pm 0.2\%$, phase error: $\pm 10'$, output load close to zero.

- Fig.1: Secondary load is close to 0, the primary input current is limited by R_{IN} to 0-2mA, the transformer generates the same current of 0-2mA at the secondary output. The operational amplifier output voltage can be adjusted by resistance R .

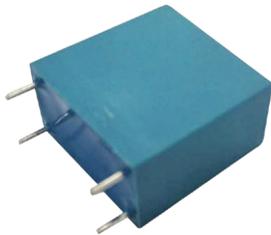
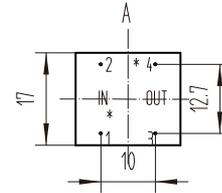
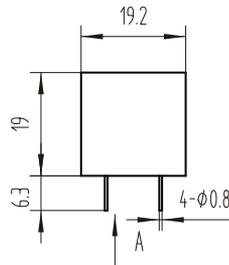
- Fig.2: Transformer secondary output is connected directly with resistor R , the resistance should not be lower than 500Ω , the maximum output voltage is 1.5Vac. The secondary output load is high, the phase error is high but the linearity keeps the same.



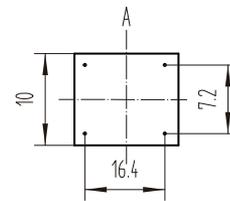
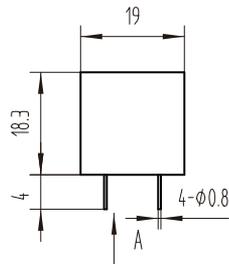
Product and Outline dimensions



HMPT-401



HMPT-403



Characteristics

Model	Type	Rated primary current (A)	Max primary current (A)	Rated secondary current (mA)	Rated sampling voltage (mV)	Load Resistance(Ω)	Accuracy Class
HMPT-401	2mA/2mA	2mA	10mA	2mA	100mV	50 Ω	0.2
	5mA/5mA	5mA	10mA	5mA	100mV	20 Ω	0.2
HMPT-403	2mA/2mA	2 mA	10mA	2mA	100mV	50 Ω	0.2
	5mA/5mA	5mA	10mA	5mA	250mV	50 Ω	0.2

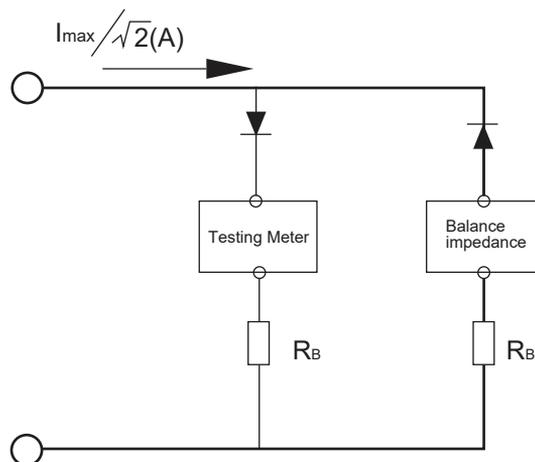
DC immune Current Transformer

- Low DC tolerance
- Suitable for a wide range of current (from 1.5 to 100A)
- Linear output current, high precision
- Compact size, delicate appearance
- Fully encapsulated with epoxy resin, high dielectric strength

DC Tolerance

-In normal condition, the power net is pure sinusoidal AC signal. But in special cases, the circuit have DC composition. Standard current transformer would be saturated under this condition, and cause huge error rate in the meter measurements. DC immune CT can solve this problem.

-DC tolerance measurement circuit: use half rectified AC signal at input side, and connect meter and balance impedance at output side. Accuracy class 0.1 CTs the DC tolerance is within $\pm 3.0\%$, and $\pm 6.0\%$ for accuracy class 0.2 CTs.



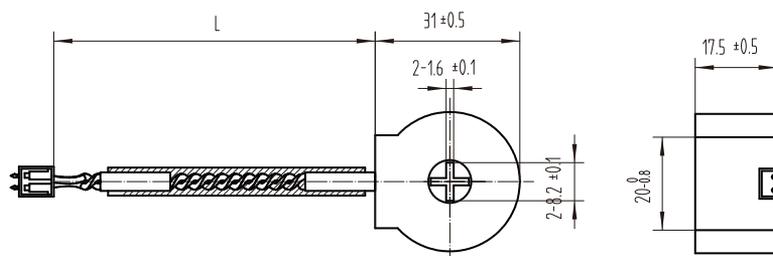
Double iron core DC immune Current Transformer

- Power factor $\text{COS}\Phi=1.0$

Product and Outline dimensions

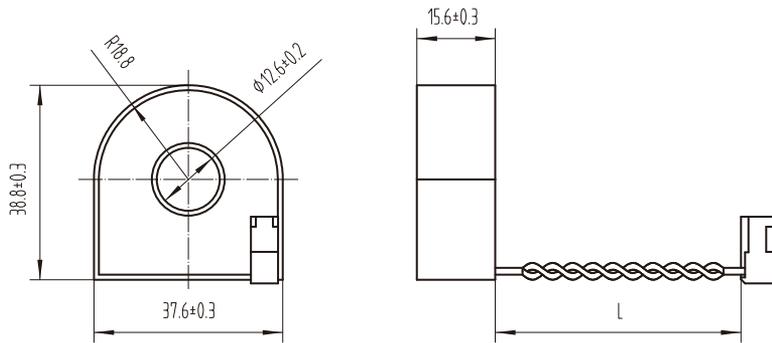


HDCT-615

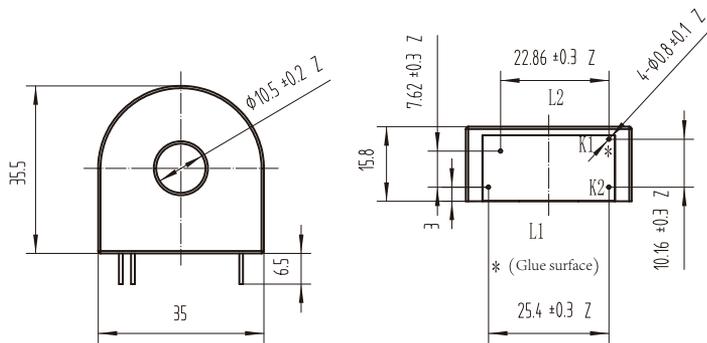




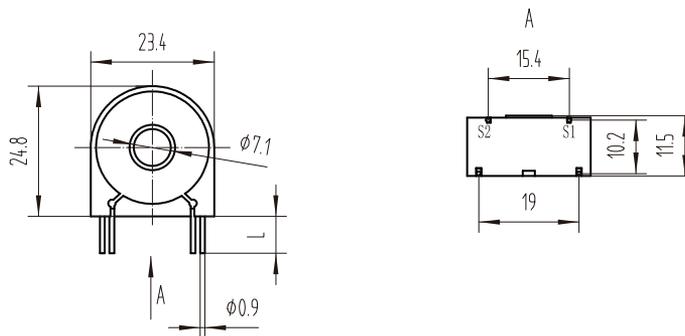
HDCT-631



HDCT1



HDCT406



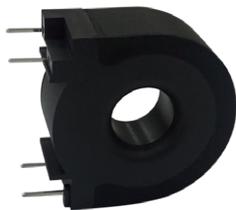
Characteristics

Model	Type	Rated primary current (A)	Max primary current (A)	Rated secondary current (mA)	DC immune peak current(A)	Load Resistance (Ω)	Accuracy Class	Power factor
HDCT-631	5-60A/2mA	5A	60A	2mA	60A	20Ω	0.1/0.2	1.0
	10-80A/4mA	10A	80A	4mA	80A	12.5Ω	0.1/0.2	1.0
	10-100A/4mA	10A	100A	4mA	100A	12.5Ω	0.1/0.2	1.0
	20-120A/8mA	20A	120A	8mA	120A	10Ω	0.1/0.2	1.0
HDCT-615	10-60A/4mA	10A	60A	4mA	60A	20Ω	0.1/0.2	1.0
HDCT1	5-60A/2mA	5A	60A	2mA	60A	7.5Ω	0.1/0.2	1.0
	10-100A/4mA	10A	100A	4mA	100A	7.5Ω	0.1/0.2	1.0
HDCT406	5-80A/2.5mA	5A	80A	2.5mA	40A	10Ω	0.2	1.0

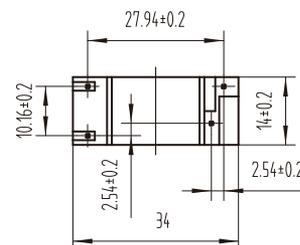
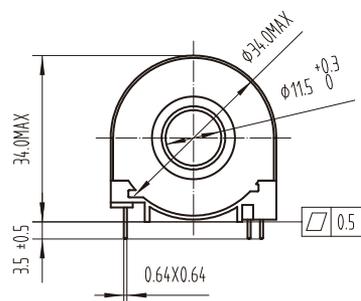
Single iron core DC immune Current Transformer

- Power factor $\text{COS}\Phi=0.5/1.0$

Product and Outline dimensions



HDCT2-2



Characteristics

Type	Model	Rated primary current(A)	Max primary current(A)	Rated secondary current(mA)	DC immune peak current(A)	Load Resistance (Ω)	Accuracy Class	Power factor
HDCT2-2	5-100A/2mA	5A	100A	2mA	100A	7.5 Ω	0.1/0.2	0.5/1.0

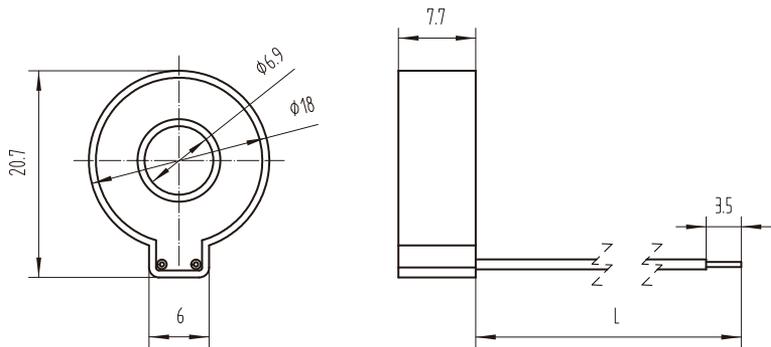
Zero sequence mini Current Transformer

- Widely used in leakage current protection
- PBT flame-retardant plastic casing
- Fully encapsulated with epoxy resin, high dielectric strength, , resistant to harsh environment

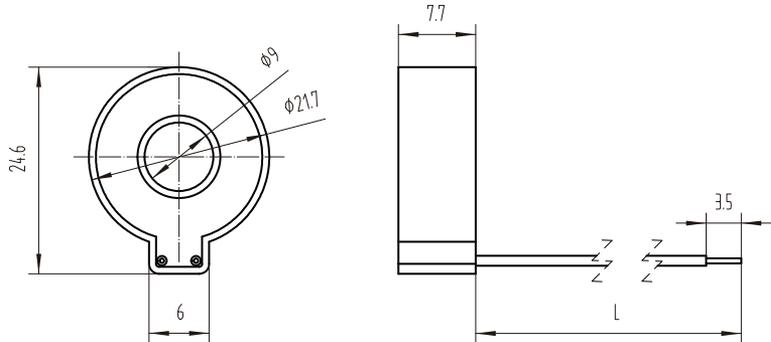
Product and Outline dimensions



HZCT-07



HZCT-09



Characteristics

Type	Primary current(mA)	Secondary voltage(mV)
HZCT-07	10-400mA	6-500mV
HZCT-09	10-400mA	6-500mV