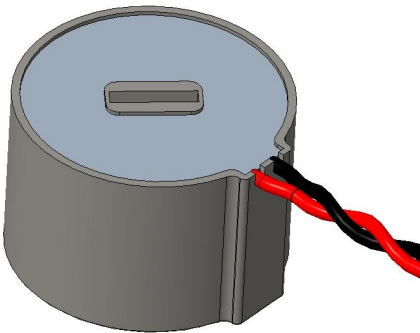


### Features

- High linearity, small ratio error and phase error, high metering accuracy
- Epoxy resin encapsulation, reliable insulation, moisture-proof and vibration-proof
- Wide operating temperature range, strong environmental adaptability
- Lead wire output, flexible assembly method



### ■ Performance Summary

|                               |                                                                                                                                           |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Frequency / 工作频率    | 50~60Hz                                                                                                                                   |
| Load Resistance / 负载电阻        | ≤20Ω                                                                                                                                      |
| Insulation Resistance / 绝缘电阻  | 1000MΩ/500VDC                                                                                                                             |
| Isolation Voltage / 绝缘电压      | 4KV/min                                                                                                                                   |
| Operating Temperature / 工作温度  | -40℃-85℃                                                                                                                                  |
| Storage Temperature / 储存温度    | -40℃-85℃                                                                                                                                  |
| Relative Humidity / 相对湿度      | ≤95% RH                                                                                                                                   |
| Altitude / 海拔高度               | ≤4000m                                                                                                                                    |
| Atmospheric conditions / 大气条件 | No gases, vapors, chemical deposits, dust, or other corrosive or explosive media that seriously affect the insulation of the transformer. |
| Environmental Features / 环保特性 | ROHS 2.0                                                                                                                                  |

## Basic Parameters

| Rated Primary Current<br>额定一次电流<br>Ib (A) | Max Current<br>最大电流<br>Imax (A) | Rated Secondary Current<br>额定二次电流<br>Is (mA) | Turns Ratio<br>匝数比<br>N | Accuracy Class<br>精度等级<br>(%) | DC Immunity<br>抗直流分量<br>(%) | Magnetic Shielding<br>磁屏蔽<br>(T) | Load Resistance<br>负载电阻<br>Rb |
|-------------------------------------------|---------------------------------|----------------------------------------------|-------------------------|-------------------------------|-----------------------------|----------------------------------|-------------------------------|
| 5                                         | 60                              | 5                                            | 1000: 1                 | 0.1, 0.2                      | /                           | /                                | 5-20                          |
| 5                                         | 60                              | 2                                            | 2500: 1                 | 0.1, 0.2                      | /                           | /                                | 5-20                          |
| 5                                         | 60                              | 2.5                                          | 2000: 1                 | 0.1, 0.2                      | /                           | /                                | 5-20                          |
| 10                                        | 60                              | 5                                            | 2000: 1                 | 0.1, 0.2                      | /                           | /                                | 5-20                          |
| 10                                        | 60                              | 10                                           | 1000: 1                 | 0.1, 0.2                      | /                           | /                                | 5-20                          |
| 10                                        | 60                              | 4                                            | 2500: 1                 | 0.1, 0.2                      | /                           | /                                | 5-20                          |

## Ordering Information

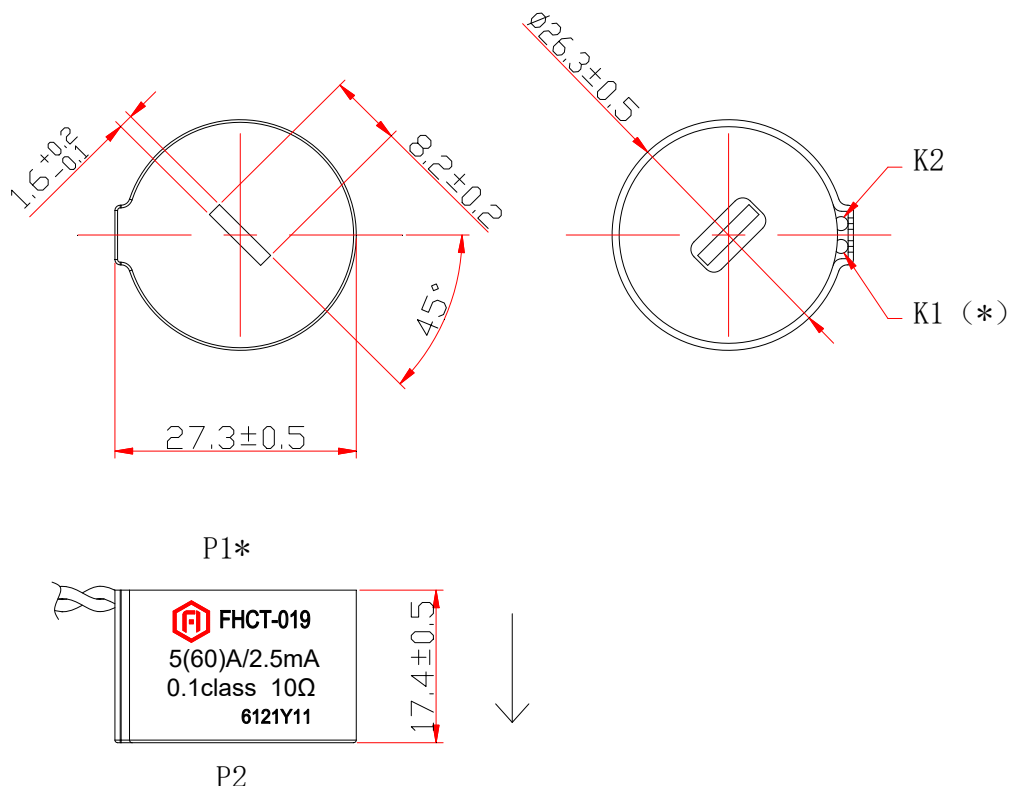
|                                   |                 |           |            |              |            |            |
|-----------------------------------|-----------------|-----------|------------|--------------|------------|------------|
|                                   | <b>FHCT-019</b> | <b>5A</b> | <b>60A</b> | <b>2.5mA</b> | <b>0.1</b> | <b>20Ω</b> |
| ①: Series/型号                      |                 |           |            |              |            |            |
| ②: Rated primary current/额定一次电流   | 5~10A           |           |            |              |            |            |
| ③: Max Current/最大电流               | 60A             |           |            |              |            |            |
| ④: Rated Secondary Current/额定二次电流 | 2~10mA          |           |            |              |            |            |
| ⑤: Accuracy Class/精度等级            | 0.1, 0.2        |           |            |              |            |            |
| ⑥: Load Resistance/负载电阻           | 5-20Ω           |           |            |              |            |            |

Note: (1) If there is a requirement for resistance to external strong magnetic field interference, the magnetic field strength and distance shall be provided together during model selection;  
(2) Basic electrical parameters can be customized to meet customers' actual application requirements.

## ■ Wiring and Installation Dimension Drawing (Unit: mm)

### Outline Drawing

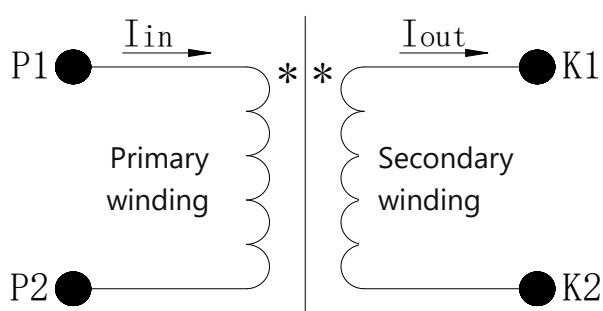
Note: "\*" denotes the same-polarity terminal.



### Remarks:

- (1) The length, color, and connector type of the secondary lead wires can be customized;
- (2) The position of the polarity terminals (same-polarity terminals) can be customized according to requirements;
- (3) The marking/printing content can be customized according to requirements.

## ■ Schematic diagram:



## ■ Precautions

- ① Do not bend or pull the lead wires forcefully at the root, to avoid breaking the internal winding;
- ② The secondary winding must not be left open-circuited, to prevent induced high voltage from damaging the circuit;
- ③ The primary conductor should pass through the through-hole as centrally as possible, to reduce additional error caused by the installation position;
- ④ The secondary load resistance must match the specified parameters; mismatched load will affect metering accuracy;
- ⑤ The withstand voltage test shall not be applied repeatedly, to avoid damage to the winding insulation;
- ⑥ Do not hit or grind the epoxy-encapsulated housing, to prevent degradation of insulation performance.