

# High Frequency AC Current Probe

## CP1015

(15App/80Hz~60MHz)



## 产品说明书

Product User Manual

## For your safety

Please strictly follow the safety tips below. If you don't follow the instruction, the potential consequences could damage the machine or hurt the users. We will not be responsible for any problem caused by violating the rules



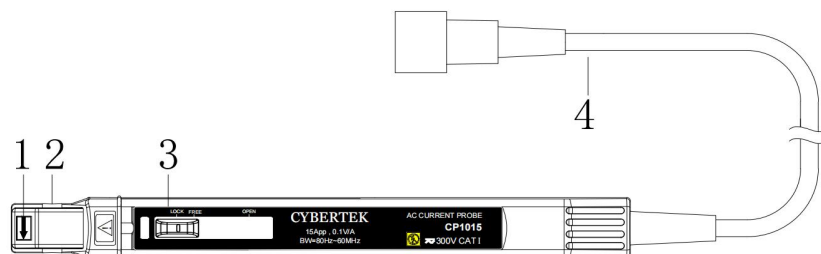
### Warning

- Make sure the product is used in rated voltage and current range.
- Do not open the shell or try to connect cable during operation
- Do not use the probe in moist or combustible environment
- Make sure the device is dry and clean before using.
- If there's anything wrong with the product, please contact us immediately. Do not open the shell and try to repair the machine or worse incident could occur.

## 1. Summary

CP1015 current probe is used for AC current measurement. The current under test can reach peak value of 15A, and has low frequency bandwidth of 80Hz, high frequency bandwidth of 60MHz. Its standard BNC output connector can be connected to the oscilloscope of any brand. The clamp design can proceed measurement easily without disconnect the circuit under test. CP1015 has been applied widely in testing like motor drive, inverter, power switch and avionics.

## 2. Product Description



- 1) Current direction indication: If the current under test flow according the current direction, output will be positive, or it is negative.
- 2) Probe head: used to clamp the cable under test, diameter around 5mm

3) Switch control lever: The lever controlling the clamp. Pull back the lever to open the clamp and put in the cable under test, push the lever forward to close and lock the clamp.

4) Output cable: 1.5 meter, standard BNC connector.

### 3. Product Specification

|                                     |                                                                                                               |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Bandwidth (-3dB)                    | 80Hz~60MHz                                                                                                    |
| Max continuous current              | 15App(5.3Arms)<br>Max current VS Frequency(Fig. 1)                                                            |
| Max Pulse Current                   | 250Apk (Fig 2) Can't surpass 500A*us or 5.3 Arms, or the magnetic core could saturate and unable to zero set. |
| Max DC saturation current           | 0.5A                                                                                                          |
| Intermediate Frequency Accuracy     | ≤3%                                                                                                           |
| Current Transfer Ratio              | 100mV/A                                                                                                       |
| Delay time                          | 16ns                                                                                                          |
| Rising time                         | ≤5.83ns                                                                                                       |
| Terminal Load                       | 1MΩ                                                                                                           |
| Input Impedance (Typical)           | 0.04Ω(100kHz),0.14Ω(1MHz)                                                                                     |
| Clamp Diameter                      | Approx. 5mm                                                                                                   |
| Output Port                         | BNC                                                                                                           |
| Output cable length                 | 1.5m                                                                                                          |
| Safety level<br>Safety Level        | 300V CATI                                                                                                     |
| Operating Temperature and Humidity  | 0°C~50°C,80% or less                                                                                          |
| Storing Temperature and Humidity    | -40°C~70°C,80% or less                                                                                        |
| Operating Altitude                  | 2000m                                                                                                         |
| Dimensions( Length* Width * Height) | 216*115*45mm                                                                                                  |
| Weight                              | Approx. 150g                                                                                                  |

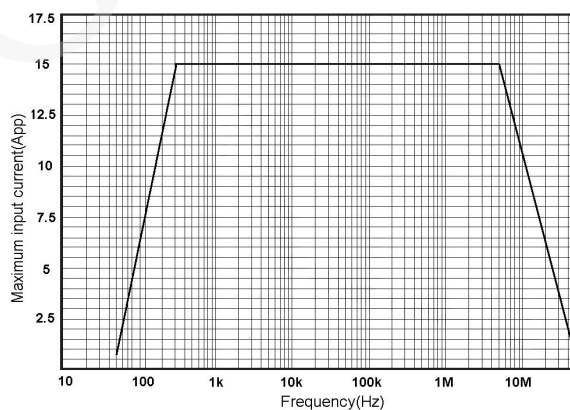


Fig 1: Max current vs Frequency curve

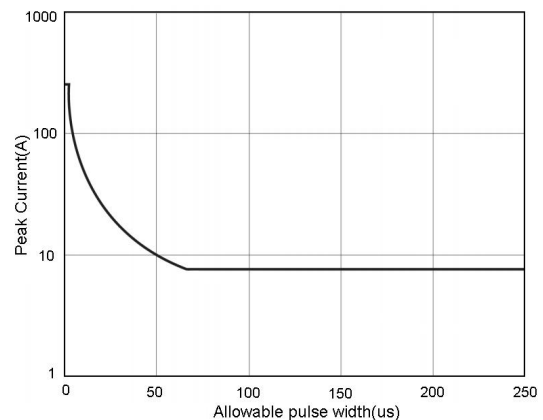


Fig 2: Pulse current vs Time curve

## 4. Operating steps



- Connect the probe with the oscilloscope or other testing equipment and set each parameter correctly.
- Make sure the DUT is powered off when attaching the probe.
- Turn on the DUT and begin measuring correctly.
- Turn off the DUT before taking off the probe after measuring.

## 5. Packing List

| Packing List                         |        |
|--------------------------------------|--------|
| Name                                 | Number |
| CP1015                               | 1      |
| Instruction Manual and Warranty Card | 1      |
| Test Report                          | 1      |

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