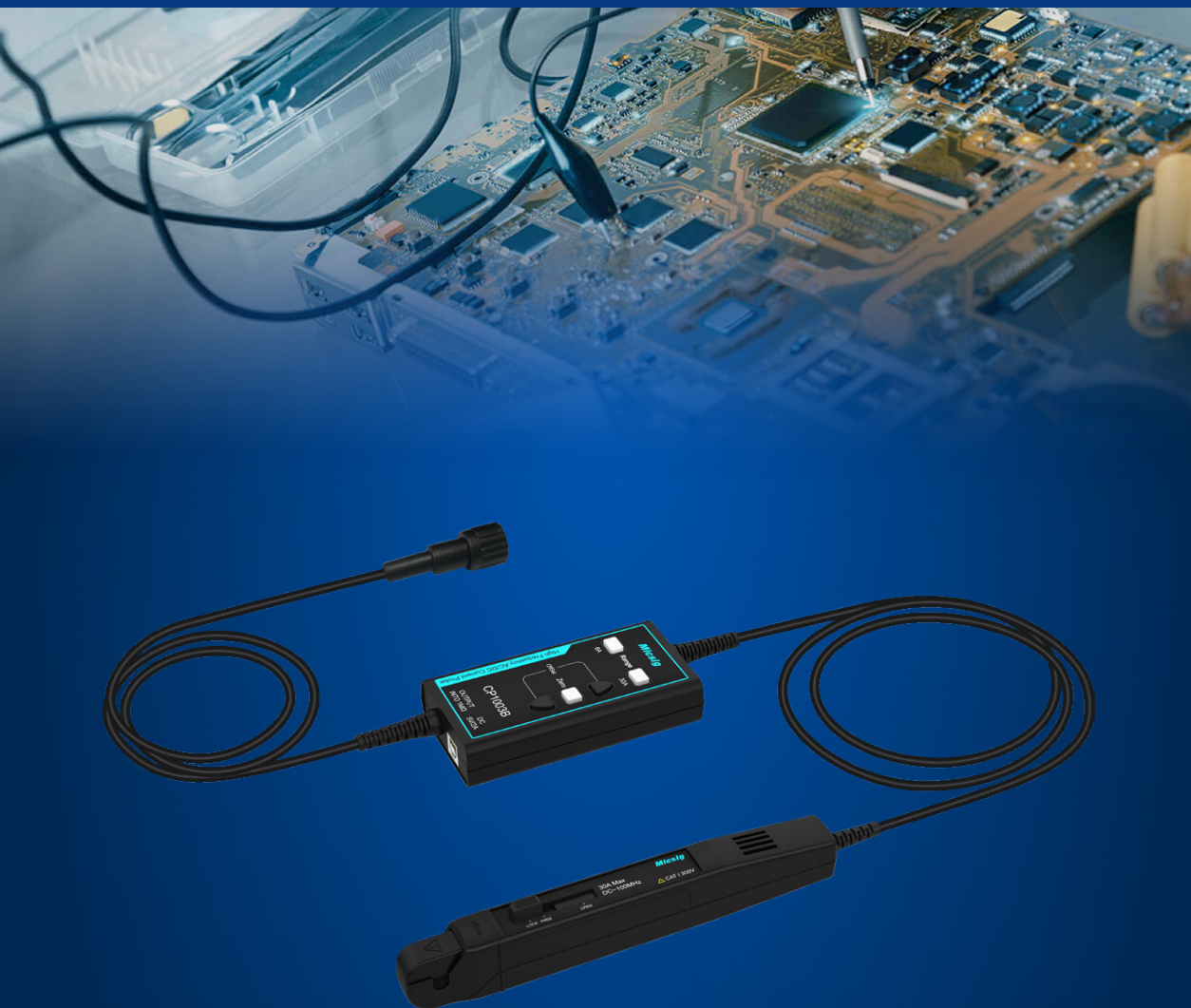


# High Frequency AC/DC Current Probe

## CP503B/CP1003B



# High Frequency AC/DC Current Probe

CP503B/CP1003B



## Key Features

- Dual range selection, easy to measure low current
- Degaussing and automatic Zero setting
- 1% DC accuracy, meet more measuring requirements
- Standard BNC interface, suitable for all oscilloscopes (CP1003B/CP503B)

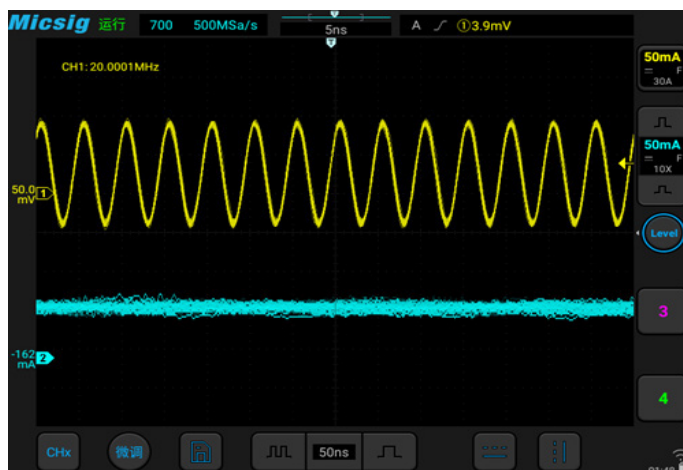
## Applications

- Electric vehicle transportation design
- Switching power supply design
- Experiment of electronic engineering
- Semiconductor devices design
- Avionics design
- Inverter/Transformer design
- Electronic ballast design
- Industrial Control / Consumer
- Electronics design
- Engine driven design
- Power electronics and electric drive experimental design

## Application Performance

### • HF Current Signal

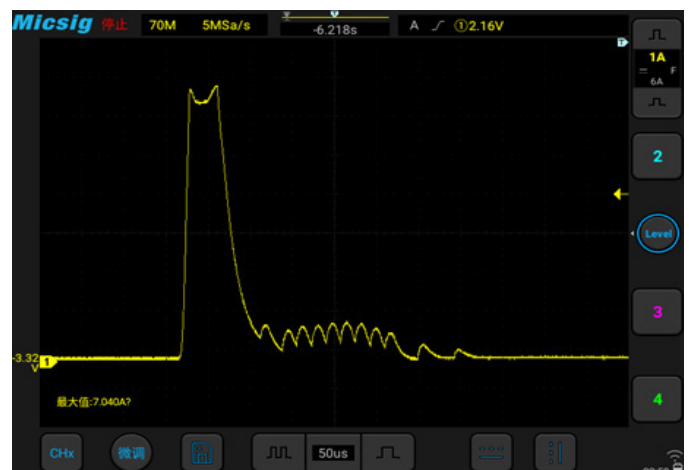
30A 0.1V/A



High frequency AC/DC current probe can easily measure signals over 20MHz (Yellow waveform on CH1)  
Signal is completely distorted when measured by Low frequency current probe (Blue waveform on CH2)

### • Surge Current

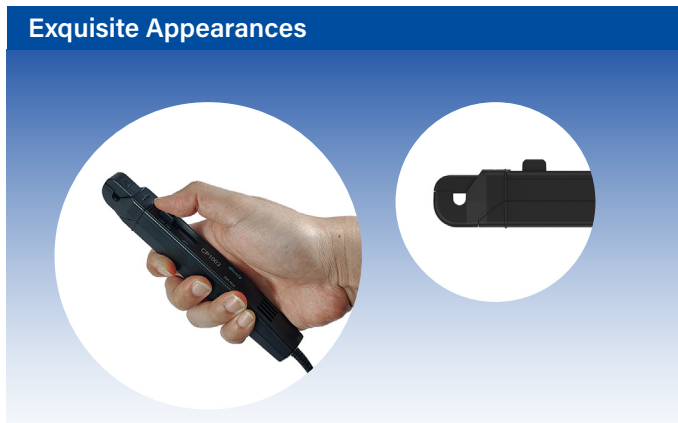
6A 0.5V/A



Surge current waveform at power adapter startup

## Easy Measurement

### Exquisite Appearances



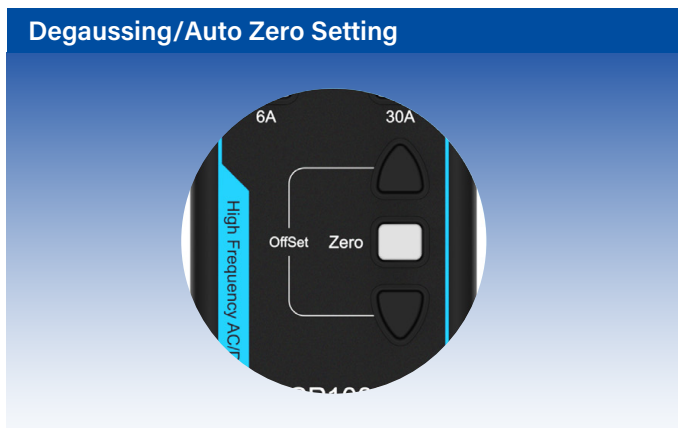
Delicate probe head, can be held in one hand, easy to operate, suitable for various complex measurement scenarios

### Overload Indication



CP503B/CP1003B: Corresponding Range button indicator flashes

### Degaussing/Auto Zero Setting



CP503B/CP1003B: Press the Zero button "□", light on, the probe will carry out Degaussing and Zero setting

### Measurement on the go

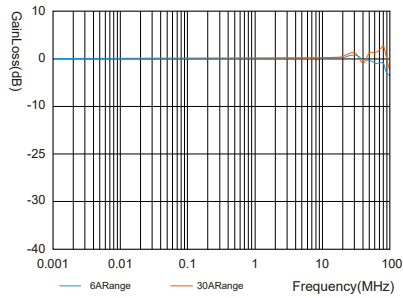


Standard dedicated suitcase, trouble-free when using outdoors

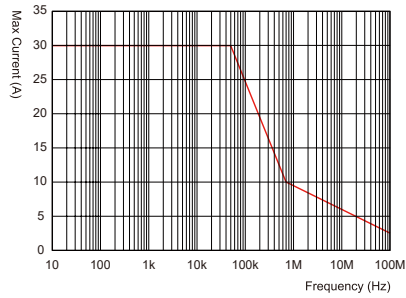
## Specifications

Model	CP503B	CP1003B
Bandwidth	50MHz	100MHz
Rise Time	≤7ns	≤3.5ns
Range	6A (2X) / 30A(10X)	
Output Sensitivity	1V / 2A (6A) 1V / 10A (30A)	
DC Accuracy (Typical)	±1%±10mA (6A) ±1%±50mA(30A)	
Delay	< 30ns (6A) < 30ns (30A)	
Current Range	20mA~6Apk (6A) 50mA~30Apk (30A)	
Max. Current Input	30Apk, 60Apk-pk,21.21Arms	
Noise	≤1.4 mA RMS (Bandwidth at 20 MHz, Range 30A, 10X)	
Max. Working Voltage	CAT I 300V	
Max. Floating Voltage	CAT I 300V	
Max. Conductor Diameter	5mm	
Overload Indicator	Flashing Light	
Power Supply	DC 5V 3A	

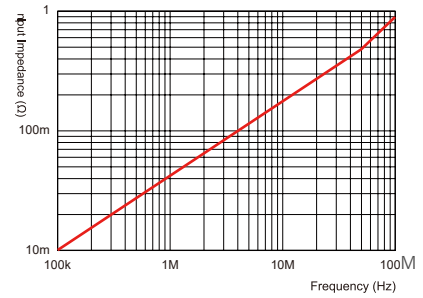
Amplitude-frequency characteristic curve  
CP1003/CP1003B



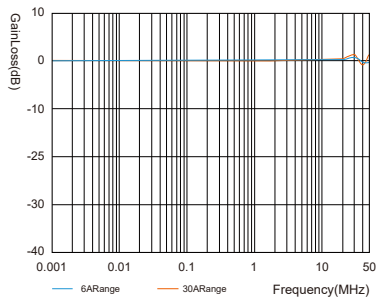
Max. Current vs Frequency Curve  
CP1003/CP1003B



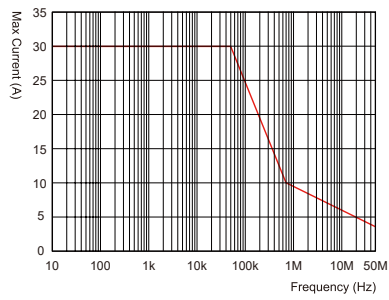
Input Impedance vs Frequency Curve  
CP1003/CP1003B



Amplitude-frequency characteristic curve  
CP503/CP503B



Max. Current vs Frequency Curve  
CP503/CP503B



Input Impedance vs Frequency Curve  
CP503/CP503B

