

Product

CT6701 Current Probe

Headline

AC/DC current probe, 5 A / 120 MHz

Short Description

Hall sensor based zero-flux current probe suitable for capturing very small to high-speed currents, wide bandwidth from DC to 120 MHz, measurable continuous current from 1 mA to 5 A, high signal-to-noise ratio, standard BNC oscilloscope connectivity, built-in overload protection

Banner Specs

- DC to 120 MHz bandwidth
- 1 mA to 5 A measurable current
- Standard BNC output for all kind of oscilloscopes

Applications

- Power supplies (switching and linear)
- Semiconductor devices (SCRs, IGBTs, MOSFETs, CMOS, BJTs)
- Power inverters/converters
- Industrial/consumer electronics
- Mobile communications (phone, satellite, relay stations)
- Motor drives
- Mobility systems (EVs, electric trains, avionics)

Product Description

The HIOKI CT6701 current sensor is a high-performance and high-sensitivity current probe designed for use with advanced oscilloscopes, memory recorders like HIOKI's MR6000 or other data acquisition systems. Engineered to deliver exceptional accuracy, the CT6701 offers a wide DC to 120 MHz bandwidth with the ability to measure currents from 1 mA to 5 A.

The CT6701 boasts a high signal-to-noise ratio, ensuring clear and precise waveform observations without the need to rely on oscilloscope filters or averaging functions. The 1 V/A output rate enhances the voltage sensitivity of connected oscilloscopes, allowing precise detection also of weak signals.

Device protection also is a core aspect of the CT6701's design, featuring a system that monitors the temperature of the measurement circuit. In the event of overheating, the power supply to the circuit is automatically disconnected to prevent damage to the device.

https://www.hioki.com/euro-en/products/current-probes/wide-band/id_5808

Additionally, a mechanism ensures that current spikes do not harm the sensor, and an LED indicator warns the user if the input current is too high.

The CT6701 outputs the measurement signal through a standard BNC connector at a high impedance level, allowing direct connection to a wide range of oscilloscopes. For best results, especially for precise signal analysis, it is recommended to use an oscilloscope with a high-resolution ADC system or a recording system like HIOKI's MR6000.

Overall, the HIOKI CT6701 current probe is a comprehensive solution for a wide range of current measurement applications. It offers essential features that ensure precision, safety, and efficiency in a compact and robust design. Whether you are working with high-speed or very small currents, the CT6701 is the tool that guarantees accurate and reliable measurements.

What's in the box

- CT6701 with hard shell case
- Instruction manual

Related Products

- 3269 Power Supply
- 3272 Power Supply
- CT6711 Current Probe
- CT6710 Current Probe
- CT6700 Current Probe
- 3273-50 Current Probe
- 3274 Current Probe
- 3275 Current Probe
- 3276 Current Probe
- MR6000 Memory Recorder

| Version | Date | Author | Approved | Document changes |
|---------|------------|--------|----------|------------------|
| 1.0 | 10.10.2024 | KS | KS | First Release |
| | | | | |