

TEKTRONIX

P6022

The Tektronix P6022 is a passive AC-only current probe designed for high-frequency measurements in compact, high-performance circuits. Providing a broad frequency response from 935 Hz to 120 MHz, it features a small split-core probe head that clips onto conductors up to 4.7 mm in diameter without breaking the circuit. The probe operates with a dedicated passive termination box to provide switchable sensitivities of 1 mA/mV and 10 mA/mV into 1 M Ω oscilloscope inputs.

SPECIFICATIONS

General

Interfaces	BNC (via termination box)
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Physical

Power Supply	Passive (no power supply required)
Operating Temperature	0 to +50 °C
Weight	0.17 kg (with termination) kg
Probe Head Length	80 mm (3.15 in)
Probe Weight (excluding cable)	71 g (2.5 oz)
Termination Weight	85 g (3 oz)

Electrical Performance

Frequency Range	935 Hz to 120 MHz
Rise Time	≤ 3 ns
Maximum Peak Current	6 A
Maximum Continuous RMS Current	4 A
Amp-Second Product	100 A- μ s
Sensitivity / Transfer Impedance	1 mA/mV or 10 mA/mV
Low-Frequency 3dB Point	935 Hz
High-Frequency 3dB Point	120 MHz
Coupling Type	AC Only
Maximum Voltage to Ground (Bare Conductor)	200 V peak
Low-Frequency Decay (Tilt)	$\leq 8\%$ / μ s at 1 mA/mV, $\leq 0.6\%$ / μ s at 10 mA/mV

Mechanical & Physical Characteristics

Maximum Conductor Outer Diameter	4.7 mm (0.185 in)
Cable Length	1.5 m (5 ft)
Probe Head Width	12 mm (0.47 in)
Probe Head Height	6 mm (0.25 in)
Jaw Opening Mechanism Type	Split Core (Slide-to-open)
Probe Shielding	Shielded probe head

Termination & System Compatibility

Required Instrument Input Impedance	1 MΩ
Output Connector Type	BNC

Environmental & Safety Compliance

Operating Temperature Range	0 °C to +50 °C
Non-Operating (Storage) Temperature Range	-40 °C to +75 °C

Standard Accessories & Ordering Options

Included Passive Termination Box Part Number	011-0106-02
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Electrical Characteristics

Insertion Impedance (1 mA/mV, 1 MHz)	0.04 Ω
Insertion Impedance (1 mA/mV, 10 MHz)	0.12 Ω
Insertion Impedance (1 mA/mV, 100 MHz)	0.35 Ω
Insertion Impedance (10 mA/mV, 1 MHz)	0.01 Ω
Insertion Impedance (10 mA/mV, 10 MHz)	0.03 Ω
Insertion Impedance (10 mA/mV, 100 MHz)	0.08 Ω

Environmental

Maximum Operating Altitude	2,000 m (6,560 ft)
Maximum Non-Operating Altitude	15,240 m (50,000 ft)

Electrical

Insertion Inductance (1 mA/mV)	< 0.11 μH
Insertion Inductance (10 mA/mV)	< 0.015 μH
Maximum Voltage (Insulated Conductor)	Limited only by conductor insulation

Performance

Propagation Delay	16 ns
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TECHNOLOGY

Passive AC Current Probe

APPLICATIONS

Oscilloscope current measurement

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