AC Current Probes

P6021A & P6022



The P6021 and P6022 Current Probes provide versatile AC current measurements. Both probes provide accurate current measurements over a wide range of frequencies. The P6021 and P6022 allow current measurements without breaking the circuit by clipping onto the current carrying conductor. Shielded probe heads are not grounded when the slides are in their open positions, eliminating accidental grounding of the circuit under test.

Key performance specifications

- P6021A
 - 120 Hz to 60 MHz
 - 10.6 A RMS, 250 A peak, 10 mA sensitivity
- P6022
 - 935 Hz to 120 MHz
 - 4 A RMS, 100 A peak, 1 mA sensitivity

Key features

- For 1 MΩ inputs
- Shielded probe head

- AC only
- Split core construction allows easy circuit connection
- 1.5 m (5 ft) cable

Applications

- Motor drives
- Power inverters/converters
- Power supplies
- Avionics

P6021A

For general purpose applications, the P6021A provides wide-band performance with excellent low-frequency characteristics. Bandwidth is 120 Hz to 60 MHz. The probe range is switchable between 2 mA/mV and 10 mA/mV.

P6022

With a head size of 0.47 in. \times 0.25 in. (10 mm \times 6 mm, about half the size of the P6021A) and a bandwidth of 935 Hz to 120 MHz, the P6022 is ideal for measuring currents in compact, high-performance circuits. Passive termination output is switchable between 1 mA/mV and 10 mA/mV.

Datasheet

Specifications

All specifications apply to all models unless noted otherwise.

Physical characteristics

Cable length 1.5 m (59 in)

P6021A probe head

 Length
 20 cm (7.77 in)

 Width
 16 mm (0.625 in)

 Height
 32 mm (1.25 in)

 Maximum conductor diameter
 5 mm (0.197 in)

P6022 probe head

 Length
 152 mm (6.0 in)

 Width
 6.4 mm (0.25 in)

 Height
 12 mm (0.47 in)

 Maximum conductor diameter
 2.8 mm (0.11 in)

EMC environment and safety

Compliance CAN/CSA-C22.2 No. 61010-1

CAN/CSA-C22.2 No. 61010-2-032

UL 61010-1 UL61010B-2-032 EN 61010-1 EN 61010-2-032

Ordering information

Models

P6021A Current Probe

P6022 Current Probe with termination

Standard accessories

6 in. ground lead 196-3521-00

Instruction manual 071-3004-00 (P6021A), 070-0948-03 (P6022)

Termination 011-0106-00 (P6022 only)

Recommended accessories

Nylon carrying case 016-1952-xx

Current loop, 1 turn, $50~\Omega$ with BNC connector, used for Performance Verification

067-2396-xx

Deskew/calibration fixture 067-1686-xx

Warranty

One year parts and labor.

Service options

Opt. C3 Calibration Service 3 Years
Opt. C5 Calibration Service 5 Years
Opt. D1 Calibration Data Report

 Opt. D3
 Calibration Data Report 3 Years (with Opt. C3)

 Opt. D5
 Calibration Data Report 5 Years (with Opt. C5)

 Opt. R3
 Repair Service 3 Years (including warranty)

Opt. R3DW Repair Service Coverage 3 Years (includes product warranty period). 3-year period starts at time of instrument purchase

Opt. R5 Repair Service 5 Years (including warranty)

Opt. R5DW Repair Service Coverage 5 Years (includes product warranty period). 5-year period starts at time of instrument purchase

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Tektronix is registered to ISO 9001 and ISO 14001 by SRI Quality System Registrar.

Datasheet

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