

# Active FET Probes

P6217 • P6205 • P6204 • 1103



## Features

### P6217

- DC to 4 GHz
- $\leq 0.40$  pF Input C
- 100 k $\Omega$  Input R
- DC Offset
- Small Size
- Integral Probe Power TEKPROBE™ BNC

### P6205

- DC to 750 MHz
- 2 pF Input C
- 1 M $\Omega$  Input R
- Low Price
- Integral Probe Power TEKPROBE™ BNC

### P6204

- DC to 1 GHz
- 1.9 pF Input C
- 10 M $\Omega$  Input R
- DC Offset
- Identify Button
- Integral Probe Power TEKPROBE™ BNC

### 1103

- Powers up to Two Probes
- For Use with P6203, P6204, P6205, P6217, P6243, P6245 on Non-TEKPROBE™ Interfaced Scopes
- Overload Protected



## Applications

- High-speed Digital Systems Design
- Component Design/Characterization
- Educational Research
- Manufacturing Engineering and Test

For your local Tektronix representative see the list in the back of this catalog or outside the U.S. call: 1-503-627-1933, inside the U.S. call: 1-800-426-2200.

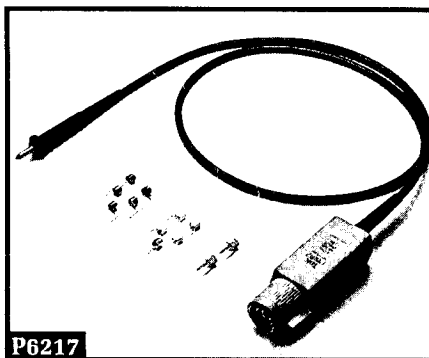


See Tektronix on the World Wide Web:  
<http://www.tek.com>

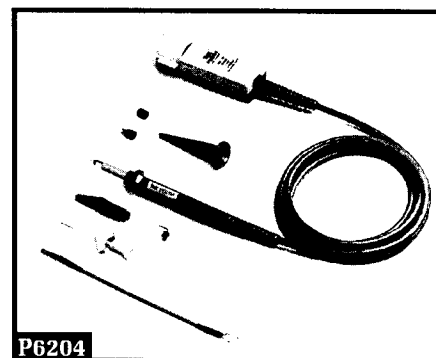


**ISO 9001** Tektronix Measurement products are manufactured in ISO registered facilities.

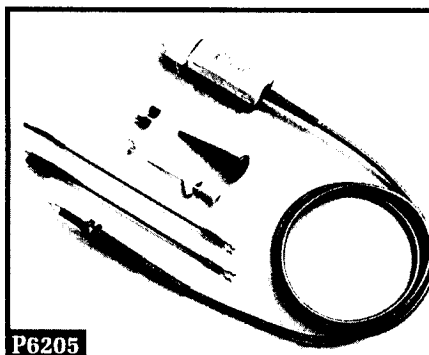
3 3 4 • Active Probes



P6217



P6204



P6205



1103

## Active FET Probes for TEKPROBE™ BNC Interface

The P6204, P6205 and P6217 Probes are Tektronix' line of Low Circuit Loading Signal Acquisition probes for CSA (Communications Signal Analyzers), DSA (Digitizing Signal Analyzers), 11000 Series and the TDS Family of Oscilloscopes.

The P6204, P6205 and P6217 are designed with FET devices for their inputs, which allows very high input resistance values and low input capacitances.

The P6217 provides the widest bandwidth and lowest input capacitance for a handheld active voltage probe with 100 K $\Omega$  input resistance.

The P6204 provides wide bandwidth, with low input capacitance and the highest input resistance available. At the same time the P6204 is the only active FET probe available which provides remote control capabilities.

The P6205 provides low input capacitance and high input resistance performance at a budget price.

All three Active FET probes provide a wide linear dynamic input range for accessing most digital device families using today's logic voltage levels.

Power for the P6204, P6205 and P6217 is supplied by the CSA, DSA, TDS and 11000 Series mainframes through the TEKPROBE™ BNC Interface, eliminating the need for extra cabling and/or external power supplies. \*1

A variable DC Offset function, which is controlled through the mainframe (CSA, DSA and 11000 Series) to bring signals (those within the offset control range) into the dynamic range of the probe, is available for the P6204 and P6217 probes.

Probe information such as type, serial number, attenuation factor, offset scale factor, input resistance, and termination resistance required is communicated through the TEKPROBE™ Interface between the Active Probe and the CSA, DSA and 11000 Series mainframes. This information is used by these oscilloscope mainframes during the scope initialization sequence and measurement analysis.