

4 GHz Active Probe

P7240 Datasheet



The P7240 4 GHz, 5X active FET probe provides truer signal reproduction and fidelity for high-frequency measurements. The probe has low input capacitance and high input resistance to minimize circuit loading over a wide bandwidth range.

Features and benefits

- <120 ps Rise Time (Guaranteed)
- 4 GHz Bandwidth
- <1 pF input capacitance
- Small form factor probe head
- Direct access to SMDs
- Supports MSO/DPO/DSA70000 series oscilloscopes
- TekConnect™ Interface

Applications

- High-speed digital systems design
- Component design/characterization
- Signal integrity, jitter, and timing analysis
- Mechanical engineering and test
- Measures 3.0 V logic, InfiniBand, PCI Express, DDR, Rambus Data Lines, Gigabit Ethernet

Performance you can count on

Selecting the right probe for your application is key to attaining the best signal fidelity in your measurements. Active probes provide truer signal reproduction and fidelity for high-frequency measurements.

The small profile and low-mass head make probing dense circuitry by hand fast and easy.

Depend on Tektronix to provide you with performance you can count on. In addition to industry-leading service and support, this probe comes backed by a one-year warranty.

The accessory tips and adapters included with the P7240 probe enable it to be used on a wide variety of circuits to meet your probing needs.



TekConnect™ Interface

The P7240 with TekConnect interface is a high-performance active probe with high bandwidth and low-capacitive loading to make it the probe of choice for demanding design applications, such as Rambus, DDR DRAM and AGP. This probe is also suited for applications in the communication industry, for measurements on Fibre Channel and Gigabit Ethernet. With the TekConnect interface, you can be assured that maximum signal integrity is maintained to meet present and future bandwidth needs.

Specifications

All specifications are guaranteed unless noted otherwise.

Warranted characteristics

| | |
|-------------|---------|
| Rise time | ≤120 ps |
| Attenuation | 5X |

Typical characteristics

| | |
|-------------------|---------|
| Bandwidth | 4.0 GHz |
| DC resistance | 20 kΩ |
| Input capacitance | <1 pF |
| Dynamic range | ±2 V |
| Offset range | ±5 V |

Physical characteristics

| | |
|--------------------------|-----------------|
| Unit weight (probe only) | 223 g (7.52 oz) |
| Cable length | 1.3 m (50 in) |

Environmental characteristics

Temperature

| | |
|--------------|--------------------------------------|
| Operating | 0 °C to +40 °C (+32 °F to +104 °F) |
| Nonoperating | -55 °C to +75 °C (-67 °F to +167 °F) |

| | |
|----------|---|
| Humidity | 0 to 90% RH at +30 °C to +40 °C (+86 °F to +104 °F) |
|----------|---|

Altitude

| | |
|--------------|----------------------|
| Operating | 4572 m (15,000 ft) |
| Nonoperating | 15,240 m (50,000 ft) |

Ordering information

| | |
|-------|----------------------|
| P7240 | 4.0 GHz Active Probe |
|-------|----------------------|

Standard accessories

| Part number | Description | Quantity |
|-------------|--|----------|
| 006-3415-xx | Wrist strap | 1 |
| 006-7164-xx | Accessory case | 1 |
| 016-1315-xx | Color coding bands, 2 each of 5 colors | 1 |
| 016-1772-xx | Pogo pin (set of 10) | 1 |
| 016-1773-xx | Square pin socket (set of 10) | 1 |

Table continued...

| Part number | Description | Quantity |
|-------------|---|----------|
| 016-1774-xx | Adapter spring (set of 10) | 1 |
| 016-1952-xx | Probe carrying case | 1 |
| 071-0759-xx | User manual | 1 |
| 131-5638-xx | Probe Tip (Set of 10) | 1 |
| 131-6254-xx | SureToe™ (set of 4) | 1 |
| 196-3456-xx | Lead set consisting of: 3-in Ground lead (3) Y-Lead (2) | 1 |
| 196-3482-xx | Customizable ground lead (set of 5) | 1 |
| 206-0569-xx | SMT KlipChip™ Adapter | 2 |
| - | Calibration data report | 1 |

Recommended accessories

| Part number | Description | Quantity |
|-------------|-----------------------|----------|
| 013-0309-xx | IC Grabber (set of 2) | 1 |

Warranty

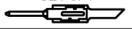
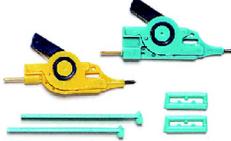
One-year warranty covering all parts and labor.

Service options

| | |
|---------|--|
| Opt. C3 | Calibration Service 3 Years |
| Opt. C5 | Calibration Service 5 Years |
| 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. R5 | Repair Service 5 Years (including warranty) |



P7240 Probe Accessory Reorder List

| | | |
|--|--|--|
|  <p>Tektronix 131-6254-XX SureToe™ SET of 4</p>  |  <p>Tektronix 131-5638-XX PROBE TIP SET of 10</p>  |  <p>Tektronix 016-1774-XX SPRING ADAPTER SET of 10</p>  |
|  <p>Tektronix 016-1772-XX POGO PIN GND SET of 10</p>  |  <p>Tektronix 016-1773-XX SOCKET, SQ PIN SET of 10</p>  |  <p>016-1315-XX COLOR MARKER BANDS SET SET of 1</p> |
|  <p>196-3456-XX LEAD SET SET of 1</p> | | |
|  <p>196-3482-XX CUSTOMIZABLE GROUND LEAD SET of 5</p> | | |
|  <p>206-0569-XX SMT KlipChip 2 EACH</p> |  <p>013-0309-XX IC GRABBER SET of 2</p> | |



Tektronix is ISO 14001:2015 and ISO 9001:2015 certified by DEKRA.

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