

4 GHz Active Probe

P7240 Datasheet



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

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

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
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Attenuation	5X
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Typical characteristics

Bandwidth	4.0 GHz
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DC resistance	20 k Ω
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Input capacitance	<1 pF
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Dynamic range	± 2 V
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Offset range	± 5 V
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Physical characteristics

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

Temperature

Operating	0 °C to +40 °C (+32 °F to +104 °F)
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Nonoperating	-55 °C to +75 °C (-67 °F to +167 °F)
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Humidity	0 to 90% RH at +30 °C to +40 °C (+86 °F to +104 °F)
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Altitude

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