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Find the *Tektronix P6249* at our website: *Click HERE*

4 GHz Active Probes

P7240 • P6249 • P6241 • P6209 Data Sheet



- Oscilloscopes Supported:
  - **P7240** TDS/CSA7000 Series
  - **P6249** TDS/CSA7000, 6000, 700, 600 Series
  - **P6241** TDS/CSA7000, 6000, 700, 600 Series
  - **P6209** CSA/TDS8000, TDS800 Series
- Probe Interfaces:
  - **P7240** TekConnect™ Interface
  - **P6249** TekProbe® II BNC Interface
  - **P6241** TekProbe II BNC Interface
  - **P6209** TekProbe SMA Interface

Features & Benefits

- <120 ps Rise Time (Guaranteed)
- 4 GHz Bandwidth
- <0.5 pF Input Capacitance (P6241 Only)
- Small Form Factor Probe Head
- 8 V_{p-p} Dynamic Range (P6241 Only)
- Direct Access to SMDs

Applications

- High-speed Digital Systems Design
- Component Design/Characterization
- Signal Integrity, Jitter and Timing Analysis
- Manufacturing Engineering and Test
- Signals with Voltage Swings up to 8 V_{p-p}
- Measures 3.0 V Logic, InfiniBand, PCI Express, DDR, Rambus Data Lines, Gigabit Ethernet

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. Tektronix provides you a wide range of 4 GHz active probes to select from for your application.

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TekConnect Interface - P7240

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 and others in the family are 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.

TekProbe BNC Interface - P6249 and P6241

The P6249 and P6241 have similar performances to the P7240. Primarily used for the TDS694C and TDS794D performance scopes, these probes may also be used with conventional BNC interfaces through the Tektronix 1103 TekProbe Power Supply. The P6249 provides 4 V_{p-p} dynamic range. The P6241 offers a 10X attenuation and a 8 V_{p-p} dynamic range plus has a lower input capacitance due to the unique probe tip. A full complement of versatile probe tip accessories helps users connect to the wide range of devices faced by digital designers.

SMA Interface/Sampling Oscilloscopes - P6209

The P6209 provides a high-bandwidth, low circuit loading probing solution for the CSA/TDS8000B sampling oscilloscopes with TekProbe SMA input connection. Based on the P6249 probe design, the P6209 has similar performance and a similar small probe head for access to today's fine-pitch SMDs and connection points.

Characteristics

Model

Characteristic	P7240	P6249	P6241	P6209
Rise Time	<120 ps	<120 ps	<120 ps	<120 ps
Bandwidth	4.0 GHz	4.0 GHz	4.0 GHz	4.0 GHz
Attenuation	5X	5X	10X	5X
DC Resistance	20 kΩ	20 kΩ	40 kΩ	20 kΩ
Input Capacitance	<1 pF	<1 pF	<0.5 pF	<1 pF
Dynamic Range	±2 V	±2 V	±4 V	±2 V
Offset Range	±5 V	±5 V	±10 V	±5 V
Interface	TekConnect™	TekProbe® II	TekProbe® II	TekProbe SMA

Ordering Information

P7240
4.0 GHz Active Probe.

P6249
4.0 GHz Active Probe.

P6241
4.0 GHz Active Probe.

P6209
4.0 GHz Active Probe.

Warranty – One year.

User Manuals –
P7240: Order 071-0759-xx.
P6249: Order 071-0538-xx.
P6241: Order 071-1188-xx.
P6209: Order 071-0634-xx.

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Included Accessories

Product Name/Description	P6241 Part Number	Quantity	P7240/P6249/P6209 Part Number	Quantity
3 Inch Ground Leads (Set of 2)	196-3437-10	1		
Customizable Ground Lead (Set of 5)	196-3482-00	1	196-3482-00	1
Lead Set: 196343700 (3) 196345700 (2)			196-3456-00	1
Y Lead Adapter	196-3434-00	2		
L Adapter (Set of 2)	016-1913-00	1		
Adapter Spring (Set of 10)			016-1774-00	1
SMT KlipChip™ Adapter	206-0364-01	2	206-0364-01	2
Short Pogo Pin Ground (Set of 8)	016-1917-00	1		
Pogo Pin (Set of 10)			016-1772-xx	1
Square Pin Socket (Set of 10)			016-1773-xx	1
Square Pin Adapter (Set of 4)	016-1910-01	1		
Probe Tip (Set of 30)			131-5638-30	1
Color Coding Bands, 2 Each of 5 Colors	016-1315-00	1	016-1315-00	1
Probe Carrying Case	016-1879-01	1	016-1879-01	1
Accessory Case	006-7164-00	1	016-7164-00	1
Wrist Strap	006-3415-04	1	006-3415-04	1
SureToe™ (Set of 12)	ST501 (Replacement Pkg of 12)	1	ST501 (Replacement Pkg of 12)	1

Recommended Accessories

Product Name/Description	P6241 Part Number	Quantity	P7240/P6249/P6209 Part Number	Quantity
SMK4 - IC Grabber (Set of 2)	013-0309-00	1	013-0309-00	1
SureFoot®, 50 mil (Set of 12)			SF501	1
SureFoot, 25 mil (Set of 12)			SF502	1
SureFoot, 0.5 mil (Set of 12)			SF503	1

Support 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
Opt. R5 – Repair Service 5 Years

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Tektronix

P7240 / P6249 / P6209
Part Reorder 1-800-835-3553



Tektronix

P6241 Probe Accessory Reorder List
To reorder parts, visit www.tektronix.com/accessories or call 1–800–833–9200 (USA)
Outside USA contact your local Tektronix representative



ISO 9001

Product(s) are manufactured in ISO registered facilities.

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For Further Information. Tektronix maintains a comprehensive, constantly expanding collection of application notes, technical briefs and other resources to help engineers working on the cutting edge of technology. Please visit **www.tektronix.com**

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