

4 GHz Active Probes

► P7240 • P6249 • P6241 • P6209



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.

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 oscilloscopes, these probes may also be used with conventional BNC interfaces via the Tektronix 1103 TEKPROBE® Power Supply. The P6249 provides 4 V_{p-p} dynamic range. The P6241 offers a 10X attenuation and an 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.

► 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
- 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

► 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

COMPUTING

COMMUNICATIONS

VIDEO

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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

	P7240	P6249	P6209
Rise Time	<120 ps	<120 ps	<120 ps
Bandwidth	4.0 GHz	4.0 GHz	4.0 GHz
Attenuation	5X	5X	5X
DC Resistance	20 kΩ	20 kΩ	20 kΩ
Input Capacitance	<1 pF	<1 pF	<1 pF
Dynamic Range	±2 V	±2 V	±2 V
Offset Range	±5 V	±5 V	±5 V
Interface	TekConnect®	TEKPROBE® II	TEKPROBE SMA

▶ Model

	P6241
Rise Time	<120 ps
Bandwidth	4.0 GHz
Attenuation	10X
DC Resistance	40 kΩ
Input Capacitance	<0.5 pF
Dynamic Range	±4 V
Offset Range	±10 V
Interface	TEKPROBE II

▶ 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 In. 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: 196-3437-00 (Set of 3) 196-3457-00 (Set of 2)		1 1	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 Option C3).

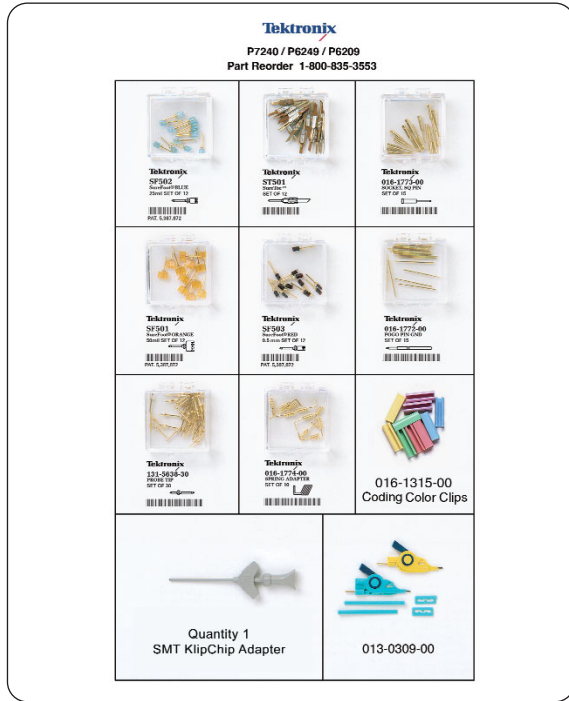
Opt. D5 – Calibration Data Report 5 Years
(with Option C5).

Opt. R3 – Repair Service 3 Years.

Opt. R5 – Repair Service 5 Years.

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4 Accessories • www.tektronix.com/accessories

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Our most up-to-date product information is available at:
www.tektronix.com

Product(s) are manufactured
in ISO registered facilities.



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