

Active Probe

P7260 Data Sheet



Features & Benefits

- 6 GHz Bandwidth
- Switchable Attenuation Provides up to 6 V_{p-p} Dynamic Range
- Low Input Capacitance <0.5 pF
- Provides 6 GHz System Bandwidth at Probe Tip with TDS6604 TekConnect™ Oscilloscope
- Connect and Adapt to Various Circuit Designs with Small Probe Head and Numerous Connection Accessories
- TekConnect Interface

Applications

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

P7260 Single-ended Active Probe

The P7260 is the fastest active probe in the world. It provides high bandwidth, low circuit loading, low noise, and accurate probing solutions for high-speed circuit designers. This probe has a small probe head for accessing connection points in tight physical constraints and with today's fine pitch circuitry.

The P7260 is the world's first probe to be developed with silicon germanium (SiGe). It features a toggle/switch that offers the choice of using the probe at either 1.5 V_{p-p} or 6 V_{p-p} dynamic range.

TekConnect interface takes probe intelligence to the next level, providing probe power, automated signaling of scale factor and offset voltage. It also adds automatic bandwidth adjustment and voltage measurement. The TekConnect interface extends useful bandwidth and signal fidelity out to 18 GHz. A full complement of versatile probe tip accessories helps connect to the wide range of devices faced by digital designers.

Characteristics

Designed for use with the TDS6604 oscilloscope - the system bandwidth is typically 6 GHz.

Characteristic	Specification 5x	Specification 25x
Type	TekConnect Active, Single-ended	
Bandwidth (probe only, typical)	6 GHz	6 GHz
Rise Time (guaranteed)	<75 ps	<85 ps
Input Capacitance (pF)	<0.5 pF	<0.5 pF
Attenuation	5x	25x
Dynamic Range	±0.75 V (1.5 V _{p-p})	±3.0 V (6.0 V _{p-p})
DC Offset Range	±5 V	±5 V
Input Resistance	20 kΩ at DC	20 kΩ at DC
Maximum Nondestruct Voltage	30 V (DC plus peak AC)	
Compatible Oscilloscopes*1	TDS6604, TDS7404, all TekConnect oscilloscopes	

*1 Requires firmware version 2.1 or higher for TDS/CSA7000 Series.

Ordering Information

P7260

6.0 GHz Active Probe, TekConnect interface.

Includes: Probe tip accessories (see list), user manual, storage case.

Warranty: One year.

Service

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

P7260 Included Accessories

Description	Quantity	Part Number/Status
Instruction Manual	1 each	071-0922-xx
Probe Carry Case	1 each	016-1879-xx
Y Lead Adapter	2 each	196-3434-xx
3 in. Ground Lead	2 each	196-3437-10
SMT KlipChip™ Adapter	2 each	206-0364-xx
SureToe™	1 set	ST501 (Replacement Pkg of 12)
Accessory Reorder Sheet	1 each	001-1349
Short Ground Pogo Pin (set of 8)	1 set	016-1917-xx
Square Pin Adapter (set of 4) (adapt to .100 in. centered square pins)	1 set	016-1910-xx
Color-coding Bands, 5 colors	1 set	016-1886-xx
"L" Adapter (set of 2)	1 set	016-1913-xx
Antistatic Wrist Strap	1 each	006-3415-xx
Customizable Grounded Lead (set of 5)	1 set	196-3482-xx

Recommended Accessories

Description	Quantity	Part Number/Status
TekConnect Calibration Adapter/Fixture/SW	1 each	067-0422-xx
Probe Arm	1 each	PPM100
High-speed Deskew Fixture	1 each	067-0484-xx
Probe Calibration Fixture	1 each	067-1456-xx
IC Grabber (set of 2)	1 set	013-0309-xx

Related Products

80A03 – TekConnect Probe Interface Module for TDS/CSA8000 Series oscilloscopes.



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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