

1.5 GHz Active Probe

► TAP1500



TAP1500 Single-ended Active FET Probe provides excellent high-speed electrical and mechanical performance required for today's digital system designs. Specifically designed for use and direct connection to the TekVPI probe interface used on Tektronix' new DPO7000 and DPO4000 Series oscilloscopes, the TAP1500 Active FET Probe achieves high-speed signal acquisition and measurement fidelity by solving three traditional problems:

- Lower DUT loading effects with ≤ 1 pF input capacitance and $1\text{ M}\Omega$ input resistance
- Versatile DUT connectivity for attaching to small SMDs
- Preserves oscilloscope bandwidth at the probe tip for DPO7000 and DPO4000 Series Oscilloscope models, up to 1 GHz

► Characteristics

Bandwidth (probe only) – ≥ 1.5 GHz.
Attenuation (probe only) – $10\times \pm 2\%$.
Rise Time (probe only) – ≤ 267 ps.
Input Capacitance – < 1 pF.
Input Resistance – $1\text{ M}\Omega$.
Linear Dynamic Range – $\pm 8\text{ V}$ (16 V_{p-p}).
Input Offset Range – $\pm 10\text{ V}$.
Max Input Voltage (Non-destruct) – $\pm 15\text{ V}$ (DC + pkAC).
Propagation Delay – 5.3 ns.

Physical Characteristics

Probe Head Size	mm	in.
Height	11.25	0.44
Width	5.1	0.20
Length	60.4	2.38
Weight	kg	lbs.
Net	0.45	1
Other Dimensions		
Cable Length	1300	51

Power Requirements

TAP1500 is powered directly by the DPO7000 and DPO4000 Series Oscilloscopes using TekVPI probe interface.

Recommended Oscilloscopes
DPO7000 and DPO4000 Series Oscilloscopes with TekVPI probe interface.

Environmental

Temperature –

Operating: $0\text{ }^{\circ}\text{C}$ to $+50\text{ }^{\circ}\text{C}$.
Non-Operating: $-40\text{ }^{\circ}\text{C}$ to $+71\text{ }^{\circ}\text{C}$.

Humidity –

Operating: 5% to 95% Relative Humidity (RH) at up to $+30\text{ }^{\circ}\text{C}$; 5% to 85% RH above $+30\text{ }^{\circ}\text{C}$ up to $+50\text{ }^{\circ}\text{C}$; non-condensing.
Non-operating: 5% to 95% Relative Humidity (RH) at up to $+30\text{ }^{\circ}\text{C}$; 5% to 85% RH above $+30\text{ }^{\circ}\text{C}$ up to $+75\text{ }^{\circ}\text{C}$; non-condensing.

Altitude –

Operating: Up to 3,000 m (10,000 feet).
Non-operating: Up to 15,240 m (50,000 feet).

Regulatory

Compliance Labeling – WEEE (European Union).

Standard Warranty

One year parts and labor.

► Features & Benefits

Outstanding Electrical Performance

- ≥ 1.5 GHz Probe Bandwidth
- < 267 ps Rise Time
- ≤ 1 pF Input Capacitance
- $1\text{ M}\Omega$ Input Resistance
- -8 V to $+8\text{ V}$ Input Dynamic Range
- -10 V to $+10\text{ V}$ DC Input Offset Range

Versatile Mechanical Performance

- Small Compact Probe Head for Probing Small Geometry Circuit Elements
- DUT Attachment Accessories Enable Connection to SMDs As Small As 0.5 mm Pitch
- Robust Design for Reliability

Easy to Use

- Connects Directly to DPO7000 and DPO4000 Series Oscilloscopes Using the New TekVPI™ Probe Interface
- Provides Automatic Units Scaling and Readout on the Oscilloscope Display
- Easy Access to Oscilloscope Probe Menu Display for Probe Status/Diagnostic Information, and to Control Probe DC Offset

► Applications

High-speed Digital Systems Design

Component Design and Characterization

Manufacturing Engineering and Test

Educational Research

Signals with Voltage Swings Up to 16 V_{p-p}

1.5 GHz Active Probe

► TAP1500

► Ordering Information

TAP1500

1.5 GHz Active Probe.

► Standard Accessories Included

Description	Quantity with TAP1500	Reorder Part Number
Low Inductance 1 in. Z-Ground Lead	2 each	196-3439-xx
3 in. Ground Lead	2 each	196-3437-xx
6 in. Ground Lead	2 each	196-3436-xx
Y-Lead Adapter	2 each	196-3463-xx
Color Coding Clips	2 each of 5 colors	016-1315-xx
Solderable Probe Tips	10 each	131-5638-xx
SMT KlipChip™ Adapter	4 each	206-0364-xx
Right Angle Square Pin Adapter	2 each	214-4227-xx
100 mm Square Pin Ground Adapter	2 each	131-5777-xx
User Manual ^{†1}	1 each	071-1809-xx English or 071-1810-xx Japanese or 071-1811-xx Simplified Chinese
Nylon Carrying Case	1 each	016-1952-xx

^{†1} Manual language must be specified when ordering.

Manual Options

Opt. L5 – Japanese instruction manual.

Opt. L7 – Simplified Chinese instruction manual.

Service 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.

Recommended Accessories

Description	Package Quantity	Reorder Part Number
50 mm IC Adapter	12	SF501
25 mm IC Adapter	12	SF502
0.5 mm IC Adapter	12	SF503
SMT KlipChip Adapter	20	SMG50
IC Micro-Grabber	2	013-0309-00

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www.tektronix.com

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in ISO registered facilities.



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