

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 DPO/MSO4000 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 DPO/MSO4000 Series Oscilloscope models, up to 1 GHz

► Characteristics

Bandwidth (probe only) – ≥ 1.5 GHz.
Attenuation (probe only) – $10x \pm 2\%$.
Rise Time (probe only) – ≤ 267 ps.
Input Capacitance – < 1 pF.
Input Resistance – $1\text{ M}\Omega$.
Linear Dynamic Range – ± 8 V (16 V_{p-p}).
Input Offset Range – ± 10 V.
Max Input Voltage (non-destruct) – ± 15 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
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Power Requirements

TAP1500 is powered directly by the DPO7000 and DPO/MSO4000 Series Oscilloscopes using TekVPI probe interface.

Recommended Oscilloscopes

DPO7000 and DPO/MSO4000 Series Oscilloscopes with TekVPI probe interface.

Environmental

Temperature –

Operating – 0°C to $+50^\circ\text{C}$.

Non-Operating – -40°C to $+71^\circ\text{C}$.

Humidity –

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

Non-Operating – 5% to 95% Relative Humidity (RH) at up to $+30^\circ\text{C}$; 5% to 85% RH above $+30^\circ\text{C}$ up to $+75^\circ\text{C}$; 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 $+8$ V input dynamic range
 - -10 V to $+10$ 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 DPO/MSO4000 series oscilloscopes using the 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}

Tektronix



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Ordering Information

TAP1500

1.5 GHz Active Probe.

TAP1500X2

1.5 GHz Active Probe. Discounted two TAP1500 probe package.

▶ Standard Accessories Included

Description	Qty with TAP1500 or TAP1500X2	Reorder Part Number	Reorder Qty
Low Inductance 1 in. Z-Ground Lead	2 each	196-3439-xx	1 each (Pkg of 10)
3 in. Ground Lead	2 each	196-3437-xx	1 each (Pkg of 2)
6 in. Ground Lead	2 each	196-3436-xx	1 each (Pkg of 2)
Y-Lead Adapter	2 each	196-3463-xx	1 each (Pkg of 2)
Color Coding Clips	2 each of 5 colors	016-1315-xx	2 each of 5 colors
Solderable Probe Tips	10 each	131-5638-xx	1 each (Pkg of 10)
Micro CKT Test Tip	4 each	206-0569-xx	1 each
Right Angle Square Pin Adapter	2 each	214-4227-xx	1 each
100 mm Square Pin Ground Adapter	2 each	131-5777-xx	1 each
User Manual*1	1 each	071-1809-xx English or 071-1810-xx Japanese or 071-1811-xx Simplified Chinese	1 each
Nylon Carrying Case*2	1 each	016-1952-xx	1 each

*1 Manual language must be specified when ordering.

*2 The TAP1500X2 does not include individual probe cases.
Users who desire the individual probe case should order the TAP1500 probe.

Options

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 Qty	Reorder Part Number
SMT KlipChip™ Adapter	20	SMG50
IC Micro-Grabber	2	013-0309-00
Probe Case	1	016-1952-02

