

# 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  $\leq 1$  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)** –  $\geq 1.5$  GHz.  
**Attenuation (probe only)** –  $10x \pm 2\%$ .  
**Rise Time (probe only)** –  $\leq 267$  ps.  
**Input Capacitance** –  $< 1$  pF.  
**Input Resistance** –  $1\text{ M}\Omega$ .  
**Linear Dynamic Range** –  $\pm 8$  V (16 V<sub>p-p</sub>).  
**Input Offset Range** –  $\pm 10$  V.  
**Max Input Voltage (non-destruct)** –  $\pm 15$  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 –  $0^\circ\text{C}$  to  $+50^\circ\text{C}$ .

Non-Operating –  $-40^\circ\text{C}$  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
- $\geq 1.5$  GHz probe bandwidth
  - $< 267$  ps rise time
  - $\leq 1$  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  $16\text{ V}_{p-p}$

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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



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免責聲明  
資料僅供參考，若有與原廠不合之處，請以原廠規格為準，且不供任何證明文件之用  
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