

Buffered Passive Probe

P6339A



Features and Benefits

- 300 V_{RMS} Maximum Input Voltage
- 8 pF Input Capacitance
- 10 M Ω Input Resistance
- Scope Controlled Parameters
- Connects to TEKPROBE® III Interface Instruments
- Compact Probe Tip Compatible with a Wide Range of Tektronix Accessories and Adapters



Applications

- General Purpose
- Digital Design
- Power Device Characterization
- Mixed Signal

Designed for TEKPROBE® III and TDS 794D

The P6339A 500 MHz Buffered Passive Probe is a revolutionary leap in probe technology. The P6339A's wide dynamic range makes it ideal for general purpose measurement applications. The new TEKPROBE III interface allows the user to control key probe parameters directly through the oscilloscope's User Interface. These parameters include:

- Input Gain
- AC/DC Coupling
- Bandwidth Limiting
- DC Offset

To facilitate SMD probing, the P6339A comes standard with a set of SureFoot™ adapters. The compact probe head/tip assembly is compatible with the full line of compact accessories. The P6339A probe is designed exclusively for the TDS 794D and TEKPROBE III instruments.

CHARACTERISTICS

WARRANTED SPECIFICATIONS

Maximum Input Voltage – 300 V_{RMS}.

Voltage Sensitivity – 10 mV/div to 100 V/div in a 1, 2, 5 sequence.

DC Attenuation Accuracy – $\pm 4\%$.

Output Offset – $\leq \pm 5$ mV.

TYPICAL SPECIFICATIONS

Bandwidth – DC to 500 MHz.

Rise Time – 700 ps.

Input C – 8 pF.

Input R – 10 M Ω .

Bandwidth Limit – Selectable 20 MHz and 150 MHz.

Coupling – AC/DC, <10 Hz Cutoff.

Output Termination – TEKPROBE III interface/50 Ω termination.

PHYSICAL CHARACTERISTICS

Probe Tip/Head Style – 3.5 mm/Compact.

Output Cable Length – 1.3 m.

ENVIRONMENTAL CHARACTERISTICS

Temperature –

Operating: +10° C to +40° C (+50° F to +104° F).

RECOMMENDED INSTRUMENTS

TDS 794D and other TEKPROBE III products.



Certified for CE Marking.



See Tektronix on the World Wide Web:
<http://www.tek.com>



Tektronix Measurement products are manufactured in ISO registered facilities.

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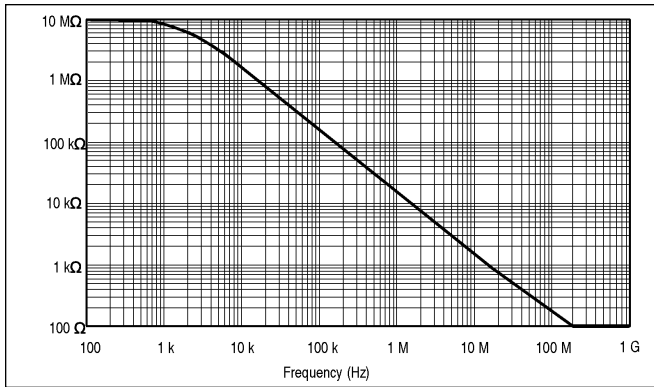


Figure 1. P6339A input impedance.

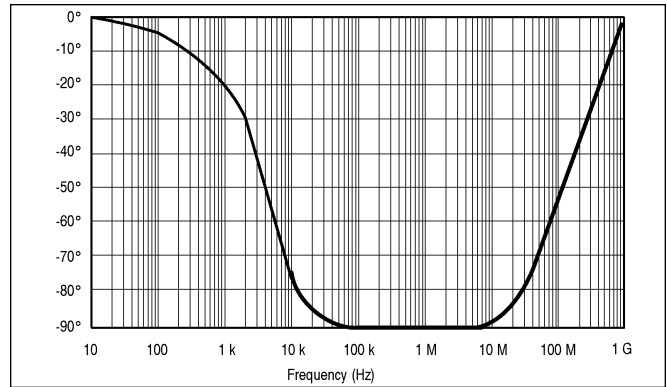


Figure 2. P6339A input phase.

ORDERING INFORMATION

P6339A

500 MHz Buffered Passive Probe.

Includes: Adjustment Tool (003-1433-00); Attenuator Tip Cover (204-1049-00); Retractable Hook Tip (013-0107-07); 2 ea. 50 mil, 25 mil (0.65 mm), and 0.5 mm SureFoot™ Adapters; 2-in. Ground Lead (195-4240-00); 6-in. Ground Lead with 0.025 in. Square-pin Receptacle (196-3113-02); 6-in. Ground Lead with Alligator Clip (196-3305-00); SMT KlipChip™ (206-0364-00); Low Inductance Lead Ground Collar (343-1003-01); 2-in. Low Inductance Ground Lead (195-4240-00); 2 ea. Pairs of Colored Cable Markers (016-0633-00); Accessory Pouch; Instruction Sheet (071-0178-00).

RECOMMENDED/REPLACEMENT ACCESSORIES

SureFoot™ Adapter, Orange, 50 mil (12 ea.) – SF201A.

SureFoot™ Adapter, blue, 0.65 mm/25 mil (12 ea.) – SF202A.

SureFoot™ Adapter, Red, 0.50 mm/20 mil (12 ea.) – SF203A.

KlipChip™ Adapter (20 ea.) – SMG50.

Micro KlipChip™ Adapter (4 ea.) – SMK4.

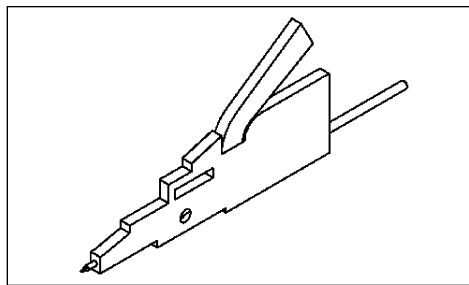


Figure 3. SMK4 Micro KlipChip™ adapter.

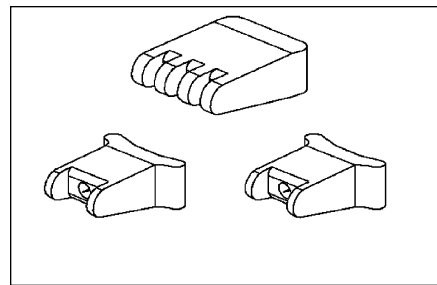


Figure 4. SF200A Series SureFoot™ adapters.

For further information, contact Tektronix:

World Wide Web: <http://www.tek.com>; **ASEAN Countries** (65) 356-3900; **Australia & New Zealand** 61 (2) 888-7066; **Austria, Eastern Europe, & Middle East** +43 2236 8092 0; **Belgium** +32 (2) 715.89.70; **Brazil and South America** 55 (11) 3741-8360; **Canada** 1 (800) 661-5625; **Denmark** +45 (44) 850 700; **Finland** +358 (9) 4783 400; **France & North Africa** +33 1 69 86 81 81; **Germany** + 49 (221) 94 77 400; **Hong Kong** (852) 2585-6688; **India** (91) 80-2275577; **Italy** +39 (2) 25086 501; **Japan (Sony/Tektronix Corporation)** 81 (3) 3448-3111; **Mexico, Central America, & Caribbean** 52 (5) 666-6333; **The Netherlands** +31 23 56 95555; **Norway** +47 22 07 07 00; **People's Republic of China** 86 (10) 6235 1230; **Republic of Korea** 82 (2) 528-5299; **South Africa** (27 11)651-5222; **Spain & Portugal** +34 (1) 372 6000; **Sweden** +46 (8) 629 6503; **Switzerland** +41 (41) 729 36 40; **Taiwan** 886 (2) 722-9622; **United Kingdom & Eire** +44(0)1628 403400; **USA** 1 (800) 426-2200.

From other areas, contact: Tektronix, Inc. Export Sales, P.O. Box 500, M/S 50-255, Beaverton, Oregon 97077-0001, USA 1 (503) 627-6877.

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