

TekVPI™ Interface Adapter

► TPA-BNC



TekVPI Interface Adapter

TPA-BNC Adapter enables existing TekProbe interface products (active, differential, high voltage, current and optical probes) to be used with Tektronix' newest generation of DPO7000 and DPO4000 Series Oscilloscopes, which feature the new TekVPI probe interface architecture. Existing TekProbe-BNC probe types simply plug into the TPA-BNC adapter which is then plugged directly into any TekVPI probe channel of the DPO7000 and DPO4000 Series oscilloscopes. The TPA-BNC adapter recognizes and supplies the necessary power and serial communication and offset control as used by the connected TekProbe product accessory.

Note: Tektronix probe types using a BNC connection, or a BNC connection with a single analog encoding pin for attenuation factor detection, connect directly to the oscilloscope's TekVPI probe interface and do not require a TPA-BNC adapter.

TekProbe Interface

TekProbe is a probe interface architecture introduced in 1986, and used on many earlier models of Tektronix oscilloscopes including the TDS300, TDS400, TDS500, TDS600, TDS700, TDS3000B, TDS5000B and TDS7000 Series. In addition to coupling the signal from the probe to the oscilloscope, the TekProbe interface provides power and offset control to active probes. It also allows the oscilloscope to sense the probe's attenuation scale factor and/or probe type.

► Features & Benefits

Enables Existing TekProbe® Products to Connect to the TekVPI Probe Interface of the New DPO7000 and DPO4000 Series Oscilloscopes

An Easy-to-Use Plug-on Adapter to the Oscilloscope's TekVPI Interface

Provides Necessary Power, Communication and Offset Control as Needed by the Attached TekProbe Product

Provides Over-current and Thermal Overload Protection for the Attached TekProbe Product

Provides an LED Probe Status Indicator which Identifies that the Probe has Powered Up Successfully

► Applications

Adapts Existing TekProbe Probe Types for Application with TekVPI Oscilloscopes

TekVPI™ Interface Adapter

▶ TPA-BNC

▶ Characteristics

Bandwidth – DC to >3 GHz.

VSWR – <1.23:1 up to 3 GHz.

RF Insertion Loss – <0.25 dB.

Delay Time – 245 ps.

Maximum Input Signal Voltage –

42 V_{pk-pk}, 30 V_{RMS}, 60 VDC.

Physical Characteristics

| Dimensions | mm | in. |
|------------|------|-------|
| Height | 43 | 1.694 |
| Width | 30.5 | 1.200 |
| Length | 62.2 | 2.449 |
| Weight | kg | lbs. |
| Shipping | 0.45 | 1 |

Power Requirements

- ▶ TPA-BNC is powered directly from DPO7000 and DPO4000 Series Oscilloscopes using TekVPI probe interface.

Environmental

Temperature

Operating – 0 °C to +50 °C.

Non-Operating – -40 °C to +75 °C.

Humidity

Operating –

5% to 95% Relative Humidity (RH) up to +30 °C;

5% to 85% RH above +30 °C up to +50 °C,

non-condensing.

Non-Operating –

5% to 95% Relative Humidity (RH) up to +30 °C;

5% to 85% RH above +30 °C up to +75 °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.

Recommended Oscilloscopes

- ▶ DPO7000 and DPO4000 Series Oscilloscopes with TekVPI probe interface.

▶ Ordering Information

TPA-BNC

TekVPI Interface Adapter to TekProbe®-BNC Probes.

Includes: User manual (071-1689-xx).

Service Options

Opt. C3 – Calibration Service 3 years (initial certification plus 2 calibrations).

Opt. C5 – Calibration Service 5 years (initial certification plus 4 calibrations).

Opt. D3 – Test Data on delivery and with future calibrations. Must be ordered with Opt. C3.

Opt. D5 – Test Data on delivery and with future calibrations. Must be ordered with Opt. C5.

Opt. R3 – Repair Service. Repair warranty extended to cover 3 years.

Opt. R5 – Repair Service. Repair warranty extended to cover 3 years.

Contact Tektronix:

ASEAN / Australasia / Pakistan (65) 6356 3900

Austria +41 52 675 3777

Balkan, Israel, South Africa and other ISE Countries +41 52 675 3777

Belgium 07 81 60166

Brazil & South America 55 (11) 3741-8360

Canada 1 (800) 661-5625

Central East Europe, Ukraine and the Baltics +41 52 675 3777

Central Europe & Greece +41 52 675 3777

Denmark +45 80 88 1401

Finland +41 52 675 3777

France & North Africa +33 (0) 1 69 86 81 81

Germany +49 (221) 94 77 400

Hong Kong (852) 2585-6688

India (91) 80-22275577

Italy +39 (02) 25086 1

Japan 81 (3) 6714-3010

Luxembourg +44 (0) 1344 392400

Mexico, Central America & Caribbean 52 (55) 56666-333

Middle East, Asia and North Africa +41 52 675 3777

The Netherlands 090 02 021797

Norway 800 16098

People's Republic of China 86 (10) 6235 1230

Poland +41 52 675 3777

Portugal 80 08 12370

Republic of Korea 82 (2) 528-5299

Russia & CIS 7 095 775 1064

South Africa +27 11 254 8360

Spain (+34) 901 988 054

Sweden 020 08 80371

Switzerland +41 52 675 3777

Taiwan 886 (2) 2722-9622

United Kingdom & Eire +44 (0) 1344 392400

USA 1 (800) 426-2200

For other areas contact Tektronix, Inc. at: 1 (503) 627-7111

Updated 15 June 2005

Our most up-to-date product information is available at:
www.tektronix.com

Product(s) are manufactured
in ISO registered facilities.



Copyright © 2005, Tektronix. All rights reserved. Tektronix products are covered by U.S. and foreign patents, issued and pending. Information in this publication supersedes that in all previously published material. Specification and price change privileges reserved. TEKTRONIX and TEK are registered trademarks of Tektronix, Inc. All other trade names referenced are the service marks, trademarks or registered trademarks of their respective companies.

12/05 HB/WWW

51W-19077-1

Tektronix
Enabling Innovation