

50 Ω TekVPI® to TekConnect® Probe Adapter

TCA-VPI50 Data Sheet



Features & Benefits

- Use 50 Ω TekVPI Probes on DPO/DSA/MSO70000 Series Oscilloscopes
- Bandwidth – DC to 4 GHz
- 50 Ω Input (Only)

Applications

- High-speed Digital Systems Design
- Component Design and Characterization
- Manufacturing Engineering and Test
- Educational Research
- Design, Validation, Debugging, and Characterization of Common High-speed Serial Bus Designs
- Signal Integrity, Jitter, and Timing Analysis
- Manufacturing Engineering and Test

TekConnect TCA Series Adapters Expand the Functionality of Tektronix High-performance Oscilloscopes

The TCA-VPI50 adapter extends the functionality of the TCA Series of adapters by enabling 50 Ω TekVPI probes to be used on oscilloscopes with TekConnect interfaces. The TekVPI interface is used on bench and performance oscilloscopes from 100 MHz up to 3.5 GHz, and until now, TekVPI probes could only be used on oscilloscopes that have a TekVPI Probe Interface. The TCA-VPI50 will only work with 50 Ω terminated probes. It will not work with 1 M Ω terminated probes, examples of which are passive probes, current probes, and most high-voltage probes.

Characteristics

Characteristic	Description
Bandwidth (-3 dB)	DC to 4 GHz (Adapter Only)
Input Resistance at DC	50 Ω
Propagation Delay (Input-to-Output)	<300 ps
VSWR (Return Loss)	1.15 max
RF Insertion Loss	0.25 dB max (Adapter Only)
RMS Noise	Refer to Host Instrument Specification
Maximum Input Voltage	Refer to Host Instrument Specification
Inputs	1 (TekVPI 50 Ω)

Supported Oscilloscopes

- DPO/DSA/MSO70000 with Windows 7 64-bit FW V6.2.0

Supported Probes

- TekVPI 50 Ω
 - TAP1500/TAP2500/TAP3500
 - TDP0500/ TDP1000/TDP1500/TDP3500
- TekVPI 1 M Ω probes are not supported

Ordering Information

TCA-VPI50

TekConnect-to-TekVPI 50 Ω Adapter.

Service Options

Option	Description
Opt. CA1	Provides a single calibration event or coverage
Opt. C3	Calibration Service 3 Years
Opt. C5	Calibration Service 5 Years
Opt. R3	Repair Service 3 Years (including warranty)
Opt. R5	Repair Service 5 Years (including warranty)

Additional Service Products Available During Warranty (DW) or Post Warranty (PW)

TCA-VPI50-CA1	Provides a single calibration event or coverage
TCA-VPI50-R1PW	Repair Service Coverage 1 Year Post Warranty
TCA-VPI50-R2PW	Repair Service Coverage 2 Years Post Warranty
TCA-VPI50-R3DW	Repair Service Coverage 3 Years (includes product warranty period). 3-year period starts at time of customer instrument purchase
TCA-VPI50-R5DW	Repair Service Coverage 5 Years (includes product warranty period). 5-year period starts at time of customer instrument purchase



Tektronix is registered to ISO 9001 and ISO 14001 by SRI Quality System Registrar.

ASEAN / Australasia (65) 6356 3900
Austria 00800 2255 4835*
Balkans, Israel, South Africa and other ISE Countries +41 52 675 3777
Belgium 00800 2255 4835*
Brazil +55 (11) 3759 7627
Canada 1 800 833 9200
Central East Europe 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 00800 2255 4835*
Germany 00800 2255 4835*
Hong Kong 400 820 5835
India 000 800 650 1835
Italy 00800 2255 4835*
Japan 81 (3) 6714 3010
Luxembourg +41 52 675 3777
Mexico, Central/South America & Caribbean 52 (55) 56 04 50 90
Middle East, Asia, and North Africa +41 52 675 3777
The Netherlands 00800 2255 4835*
Norway 800 16098
People's Republic of China 400 820 5835
Poland +41 52 675 3777
Portugal 80 08 12370
Republic of Korea 001 800 8255 2835
Russia & CIS +7 (495) 7484900
South Africa +41 52 675 3777
Spain 00800 2255 4835*
Sweden 00800 2255 4835*
Switzerland 00800 2255 4835*
Taiwan 886 (2) 2722 9622
United Kingdom & Ireland 00800 2255 4835*
USA 1 800 833 9200

* European toll-free number. If not accessible, call: +41 52 675 3777

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For Further Information. Tektronix maintains a comprehensive, constantly expanding collection of application notes, technical briefs and other resources to help engineers working on the cutting edge of technology. Please visit www.tektronix.com



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