Tektronix[®]

50 Ω TekVPI to TekConnect Probe Adapter

TCA-VPI50 Datasheet



Features and 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

Expand the functionality of Tektronix highperformance 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 highvoltage probes.

Specifications

All specifications are typical unless noted otherwise. All specifications apply to all models unless noted otherwise.

Characteristics

Bandwidth (-3 dB) DC to 4 GHz (Adapter Only)

Input Resistance at DC 50 Ω Propagation Delay (Input-to-<300 ps

Output)

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
 - TIVH02/TIVH02L/TIVH05/TIVH05L/TIVM1/TIVM1L/TIVH08/TIVH08L
 - TAP1500/TAP2500/TAP3500/TAP4000
 - TDP0500/TDP1000/TDP1500/TDP3500/TDP4000
- TekVPI 1 MΩ probes are not supported

Ordering information

TCA-VPI50 TekConnect-to-TekVPI 50 Ω Adapter.

Service options

Opt. C3 Calibration Service 3 Years
Opt. C5 Calibration Service 5 Years

Opt. CA1 Single Calibration or Functional Verification
Opt. R3 Repair Service 3 Years (including warranty)
Opt. R5 Repair Service 5 Years (including warranty)
Opt. SILV200 Standard warranty extended to 5 years

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 ISO 14001:2015 and ISO 9001:2015 certified by DEKRA.

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