N2744A T2A Probe Interface Adapter

Data Sheet

Key Features

- Enables TekProbe-BNC™ level II probes to connect to Agilent's AutoProbe interface on InfiniiVision 3000X, 5000, 6000, 7000 and Infiniium 9000, 90000 oscilloscopes
- An easy-to-use plug-on adapter to the Agilent oscilloscope's AutoProbe interface
- Provides necessary probe power, offset control and calibration as needed to the attached TekProbe probe

The N2744A T2A interface adapter enables selected Tektronix TekProbe interface level II probes to be used with Agilent oscilloscopes with the AutoProbe interface. Existing TekProbe-BNC probe types can simply be plugged into the T2A adapter which is then plugged directly into any AutoProbe input channel on an InfiniiVision or Infiniium oscilloscope. Select the probe model in the scope menu and the Agilent oscilloscope sets up the attenuation factor and the probe type automatically. The T2A interface adapter supplies the necessary probe power and offset control as used by the connected TekProbe probe. The adapter is targeted for customers using both Tek active probes with TekProbe-BNC level II interfaces and Agilent oscilloscopes with the AutoProbe interface.



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Tek probe compatibility

The N2744A T2A adapter supports only the probes listed below with TekProbe™ interfaces.

Current probe

- TCP202 50 MHz AC/DC current probe

Single-ended active probes

- P6243 Single-ended active probe, 1 GHz, 10:1 without offset control
- P6245 Single-ended active probe, 1.5 GHz, 10:1 with offset control
- P6205 Single-ended active probe, 750 MHz, 10:1 without offset control
- P6241 Single-ended active probe, 4 GHz, 10:1 with offset control
- P6249 Single-ended active probe, 4 GHz, 10:1 with offset control

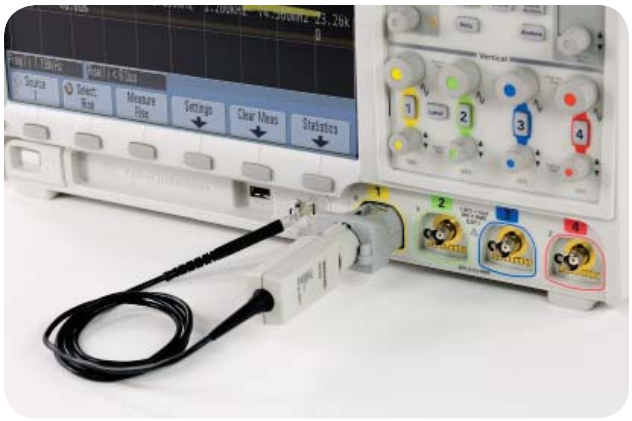
Differential active probes

- P5205 Differential probe, 100 MHz, 50:1/500:1 with offset control (works with InfiniiVision 3000X only)
- P5210 Differential probe, 50 MHz, 100:1/1000:1 with offset control (works with InfiniiVision 3000X only)
- P6246 Differential probe, 400 MHz, 10:1/1:1 with offset control
- P6247 Differential probe, 1 GHz, 10:1/1:1 with offset control
- P6248 Differential probe, 1.5 GHz, 10:1/1:1 with offset control
- P6250 Differential probe, 500 MHz, 50:1/5:1 with offset control
- P6251 Differential probe, 1 GHz, 50:1/5:1 with offset control

Agilent scope compatibility

- Agilent InfiniiVision 3000X with software version 1.10 or higher
- Agilent InfiniiVision 5000, 6000, and 7000 Series (except 6000 100 MHz) with software version 06.15 or higher
- Agilent Infiniium 9000 and 90000 Series with software version 03.00 or higher
- Agilent Infiniium 90000 X-Series with N5442A InfiniiMax III 50 Ω adapter

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Performance characteristics

Electrical	
Bandwidth	4 GHz (adapter only)
Power supplies	+15V, -15V, +5V, -5V (each 2%)
Max output current	200 mA for positive and negative supplies
Offset control range	±1 V (from the adapter)
Max input voltage	42 Vpk, 30 Vrms

Environmental

· Operating temperature range : 0 to 50 degC
· Non-operating temperature range: -40 to 70 degC
· Humidity: 95% RH at 50 degC
· Alititude: 4.000m

Physical

· 37mm W x 29.5mm L x 58mm D
· Weight: 45 g

Product specifications and descriptions in this document subject to change without notice.

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