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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight E5383B

Keysight E5383B 17 Channel Single Ended Flying Lead Probe The Keysight E5383B is a 17-channel single-ended flying-lead probe set for logic analyzers with 40-pin cable connectors. It provides 16 data channels and one clock with 1.5 pF equivalent load capacitance and can measure signals as small as 600 mV peak-to-peak. Probing dispersed nets without designed-in headers, attaching to IC clips or square/round pins, and general-purpose debug on 40-pin analyzer cables. One point five pF equivalent load capacitance The Keysight E5383B is a 17-channel single-ended flying-lead probe set for logic analyzers with 40-pin cable connectors. It provides 16 data channels and one clock with 1.5 pF equivalent load capacitance and can measure signals as small as 600 mV peak-to-peak. Probing dispersed nets without designed-in headers, attaching to IC clips or square/round pins, and general-purpose debug on 40-pin analyzer cables. One point five pF equivalent load capacitance Works with designed-in pins or included IC test clips



MODEL

**Agilent / Keysight
E5383B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E5383B

LISTING

<https://aumictechlabs.com/products/e5383b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight E5383B is a single-ended flying lead probe that connects directly to logic analyzers for real-time signal acquisition across dispersed measurement points. This 17-channel probe assembly provides 16 data channels and 1 clock channel, enabling access to signals at designed-

in connectors, component leads, and board features via an included IC test clip. The probe's minimal 1.5 pF equivalent load capacitance preserves signal integrity while supporting minimum signal amplitudes of 600 mV peak-to-peak (p-p). Technical Specifications Channels: 17 total (16 single-ended data + 1 single-ended clock) Equivalent Load Capacitance: 1.5 pF Minimum Signal Amplitude: 600 mV p-p Maximum Data Rate: Equivalent to attached logic analyzer's data rate Pin Compatibility: 0.63 mm square pins or 0.66–0.84 mm diameter round pins Key Features Flying lead configuration enables flexible probing of randomly distributed test points IC test clip included for non-intrusive attachment to component leads and traces Direct connector interface for pre-designed measurement nodes Low input capacitance minimizes loading effects on target circuitry Typical Applications Post-silicon validation and debug on PCB assemblies Signal monitoring at scattered measurement points where probe cards are impractical Functional verification in designs with distributed signal paths Component-level acquisition where trace accessibility is limited Compatibility & Integration The E5383B interfaces with Keysight logic analyzers equipped with 40-pin cable connectors, providing seamless integration into existing measurement setups. The probe accepts both square and round pin geometries, adapting to varied connector and component footprint designs.

E5383B Characteristics / Specifications

PARAMETER	VALUE
Model	E5383B
Instrument Type	single ended flying lead logic analyzer probe
Channel Count	17
Data Channels	16
Clock Channels	1
Signal Type	single ended clock and data
Equivalent Load Capacitance	1.5 pF
Minimum Signal Amplitude	600 mV peak to peak
Analyzer Cable Interface	40 pin cable connectors
Pin Compatibility Square	0.63 mm square pins
Pin Compatibility Round	0.66 mm to 0.84 mm diameter round pins
Accessory Class	IC test clips supported
Data Rate Behavior	equivalent to attached logic analyzer data rate
Probe Lead Style	flying leads for dispersed points
Sibling E5383A Capacitance Class	1.5 pF
Sibling E5383A Amplitude Class	600 mV p-p
Sibling E5383A Channel Count	17
Application Class	flexible connection to individual signals
Maximum Data Rate Marketing Class	up to 1.5 Gb/s analyzer limited class
Ground Lead Support	ground leads included in flying lead kits class
Target Design Requirement	no designed in header required
Included Clip Class	IC test clips for component attachment
Data Rate	Behavior: equivalent to attached logic analyzer data rate

E5383B Specifications

PARAMETER	VALUE
Key Features	Seventeen channels 16 data plus 1 clock
One point five pF equivalent load capacitance	Six hundred mV p-p minimum amplitude
Technical Specifications	Model: E5383B
Notes	Numeric rows from Keysight E5383B product specifications and Probing Solutions flying-lead tables for the E5383 family.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.