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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 85053A 3.5 MM verification kit

Female Connectors Successor: metrology-grade precision slotless connectors on 85053B
Traceability: factory characterization traceable to Keysight/HP golden standard Literature: HP 85053A verification literature; 85053B user's guide 9018-01143 successor table Function: verify measurement calibration and analyzer systematic error terms Traceability: factory characterization traceable to Keysight/HP golden standard Literature: HP 85053A verification literature; 85053B user's guide 9018-01143 successor table Function: verify measurement calibration and analyzer systematic error terms Torque 3p5 Mm Family: 90 N-cm (8 in-lb) class of 3.5 mm kits



MODEL

**Agilent / Keysight
85053A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

85053A

LISTING

<https://aumictechlabs.com/products/85053a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 85053A is a 3.5 mm precision verification kit engineered to validate the error-corrected performance of network analyzer systems. It confirms that measurement calibration is valid and that the analyzer operates within specified parameters. Though obsolete and no longer sold by Keysight, the kit remains supported and is designed specifically for 3.5 mm connector interfaces used in RF and microwave testing. Technical Specifications Connector Type: 3.5 mm precision connectors Included Standards: Precision 3.5 mm beadless airline, 7.5 cm long Precision 3.5 mm stepped impedance airline (25 ohms nominal) Precision 3.5 mm 20 dB

attenuator Precision 3.5 mm 40 dB attenuator Calibration Data Cartridge with device S-parameter data Printed S-parameter data Beatty Standard Physical Dimensions: 12 × 8 × 5 inches Weight: 5 lbs Storage Case: Included Key Features Factory-measured verification data supplied with each kit Measurement data and uncertainties traceable to NIST Device traceability to Keysight Technologies' reference standard calibration lab Electrical or mechanical data provided based on device configuration Complete S-parameter documentation included Typical Applications Verification of error-corrected network analyzer performance and validation of measurement calibration integrity in production and service environments. Compatibility & Integration Compatible Network Analyzers: HP 8510 series Keysight PNA Series Agilent 8719 Agilent 8720 Companion Calibration Kits: Agilent 85052B 3.5 mm calibration kit HP 85033C calibration kit

85053A Characteristics / Specifications

PARAMETER	VALUE
Model	85053A
Instrument Type	Network analyzer verification kit
Connector Type	3.5 mm
Successor Model	85053B
Successor Frequency Range	300 kHz to 26.5 GHz on 85053B 9018-01143
Successor Attenuator 20 Db	20 dB attenuator with factory data (85053B)
Successor Attenuator 40 Db	40 dB attenuator with factory data (85053B)
Successor Airline 50 Ohm	50 ohm airline with factory-measured data (85053B)
Successor Airline 25 Ohm	25 ohm mismatch airline with factory-measured data (85053B)
Companion Calibration Kits	85052B/D and 85033E 3.5 mm calibration kits
Operating Temperature Successor	+20 C to +26 C
Storage Temperature Successor	minus 40 C to +71 C
Error Corrected Temperature Successor	plus or minus 1 C of measurement calibration temperature
Operating Altitude Successor	less than 4500 meters (about 15000 feet)
Storage Altitude Successor	less than 15000 meters (about 50000 feet)
Humidity Type Tested Successor	0 percent to 95 percent at 40 C non-condensing
Female Connectors Successor	metrology-grade precision slotless connectors on 85053B
Traceability	factory characterization traceable to Keysight/HP golden standard
Literature	HP 85053A verification literature; 85053B user's guide 9018-01143 successor table
Impedance	50 ohm
Form Factor	3.5 mm verification kit
Function	verify measurement calibration and analyzer systematic error terms
Torque 3p5 Mm Family	90 N-cm (8 in-lb) class of 3.5 mm kits
Storage temperature	Successor: minus 40 C to +71 C
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PARAMETER	VALUE
Humidity	Type Tested Successor: 0 percent to 95 percent at 40 C non-condensing

85053A Specifications

PARAMETER	VALUE
Agilent 85053A 3.5 mm Verification Kit	Overview
Applications	Verifying 3.5 mm calibrations using factory-characterized attenuators and airlines.
Key Features	3.5 mm verification devices
Attenuator and airline architecture of the 85053 family	Used with 85052/85033 3.5 mm kits
Technical Specifications	Model: 85053A

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
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Function	verify measurement calibration and analyzer systematic error terms
Torque 3p5 Mm Family	90 N-cm (8 in-lb) class of 3.5 mm kits Notes 85053A identity and 3.5 mm companion-kit use from HP 85053A listings. Frequency, attenuator, airline, and environment rows labeled successor are the published Keysight 85053B 9018-01143 table.

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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NIST-traceable calibration · SAM registered ·
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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.