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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent / Keysight U11645A Verification Kit, WR-19

Keysight U11645A WR-19 Waveguide Verification Kit The Keysight U11645A isaWR-19 waveguide verification kit. OEM mm-wave verification-kit tables list U11645A Verification Kit WR-19 alongside V11645A WR-15, Q11645A WR-22, and R11645A WR-28 (26.5 to 40 GHz). WR-19 covers 40 to 60 GHz (U-band). Verifying WR-19 / 40-60 GHz waveguide VNA calibrations against factory-measured standards. Used with WR-19 mechanical or ECal calibration The Keysight U11645A isaWR-19 waveguide verification kit. OEM mm-wave verification-kit tables list U11645A Verification Kit WR-19 alongside V11645A WR-15, Q11645A WR-22, and R11645A WR-28 (26.5 to 40 GHz). WR-19 covers 40 to 60 GHz (U-band). Verifying WR-19 / 40-60 GHz waveguide VNA calibrations against factory-measured standards. Used with WR-19 mechanical or ECal calibration Instrument Type: Waveguide verification kit



MODEL

**Agilent / Keysight
U11645A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

U11645A

LISTING

<https://aumictechlabs.com/products/u11645a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight U11645A Verification Kit is a precision standard designed to validate WR-19 waveguide system performance across 40 GHz to 60 GHz. This kit enables network analyzer calibration verification and systematic error characterization, with all measurements traceable to

NIST. Engineers use it to confirm measurement validity and verify that waveguide components - adapters, attenuators, terminations, and filters - meet specified requirements. Technical Specifications Waveguide Size: WR-19 Frequency Range: 40 GHz to 60 GHz Flange Type: UG-383/U-M Waveguide Dimensions: 0.188 inches × 0.094 inches (4.7752 mm × 2.3876 mm) Measurement Traceability: NIST Material: Brass, OFHC copper, or aluminum; instrumentation-grade sections gold-plated Key Features Standard waveguide section with characterized RF performance Stepped impedance airline for calibration procedures 20 dB and 50 dB attenuators with measured uncertainties Known mismatch standard for systematic error quantification High-grade oxygen-free copper construction ensures repeatable performance Typical Applications This kit calibrates and verifies network analyzer performance across the millimeter-wave band. Engineers employ it to confirm valid measurement calibrations, assess system dynamic range accuracy, and characterize waveguide-based RF components. It is a traceable standard for validating attenuator performance, mismatch conditions, and overall system integrity in 40–60 GHz applications. Compatibility & Integration Designed for integration with Keysight PNA Series network analyzers. Operates with complementary calibration standards such as the Keysight U11644A. The UG-383/U-M flange ensures compatibility with standard WR-19 waveguide systems.

U11645A Characteristics / Specifications

PARAMETER	VALUE
Model	U11645A
Instrument Type	Waveguide verification kit
Waveguide	WR-19
Frequency Range	40 GHz to 60 GHz
Band	U band
Related Wr	R11645A 26.5 to 40 GHz
System Impedance	waveguide characteristic impedance
Manufacturer	Keysight Agilent HP
Form Factor	waveguide verification standards in case
Literature	U11645A Verification Kit WR-19 listings
Use Case	confirm waveguide VNA calibration
Traceability	factory-measured data with uncertainties
Host Analyzer	PNA with WR-19 mm-wave heads
Flange	WR-19 waveguide flange
Operating Temperature Class	laboratory waveguide kit window
Storage	kit case
Standards	verification attenuators/lines class
Calibration Partner	WR-19 cal kit
Torque	waveguide flange torque per kit note
Brand Lineage	Hewlett Packard Agilent Keysight
Operating temperature	Class: laboratory waveguide kit window

U11645A Specifications

PARAMETER	VALUE
Applications	Verifying WR-19 / 40-60 GHz waveguide VNA calibrations against factory-measured standards.
Key Features	WR-19 waveguide verification
Technical Specifications	Model: U11645A

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: laboratory waveguide kit window
Operating Temperature	Class: laboratory waveguide kit window
Operating Temperature Class	laboratory waveguide kit window
Storage	kit case
Standards	verification attenuators/lines class
Calibration Partner	WR-19 cal kit
Torque	waveguide flange torque per kit note
Brand Lineage	Hewlett Packard Agilent Keysight Notes Identity, WR-19, and 40-60 GHz coverage from Keysight U11645A Verification Kit WR-19 listings and the 11645 waveguide verification family (R11645A WR-28 26.5 to 40 GHz published). Device-by-device S-parameters are on the U11645A data disk.

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	
Specifications	
PARAMETER	VALUE
Model	U11645A
Instrument Type	Waveguide verification kit
Waveguide	WR-19
Frequency Range	40 GHz to 60 GHz
Band	U band
Related Wr15	V11645A
Related Wr22	Q11645A
Related Wr28	R11645A 26.5 to 40 GHz
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Notes	
Identity, WR-19, and 40-60 GHz coverage from Keysight U11645A Verification Kit WR-19 listings and the 11645 waveguide verification family (R11645A WR-28 26.5 to 40 GHz published). Device-by-device S-parameters are on the U11645A data disk.	

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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30-day returns
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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.