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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight U281B

HP Agilent U281B Coaxial Waveguide Adapter Family The HP U281B is a coaxial-to-waveguide adapter in the HP 281/X281/P281/U281 family. OEM microwave adapter catalogs list U281B as a U-band (WR-19, 40-60 GHz) coax-to-waveguide adapter used with 8510/PNA mm-wave and 11970-series harmonic mixers. Transitioning coaxial 1.85/2.4 mm test ports to WR-19 waveguide. Instrument Type: Coaxial to waveguide adapter The HP U281B is a coaxial-to-waveguide adapter in the HP 281/X281/P281/U281 family. OEM microwave adapter catalogs list U281B as a U-band (WR-19, 40-60 GHz) coax-to-waveguide adapter used with 8510/PNA mm-wave and 11970-series harmonic mixers. Transitioning coaxial 1.85/2.4 mm test ports to WR-19 waveguide. Instrument Type: Coaxial to waveguide adapter Literature: HP U281B waveguide adapter catalogs

**MODEL****Agilent / Keysight
U281B****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****U281B****LISTING**<https://aumictechlabs.com/products/u281b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight U2814B is a modular instrument chassis that enables construction of custom test systems by housing up to six USB modular instruments in a single 4U platform. Built on the U2781A chassis, it delivers flexible, scalable testing for R&D, manufacturing, and field environments through hot-swappable modules, integrated power management, and synchronized multi-instrument operation. Technical Specifications Chassis and Physical Form factor: 4U rack height Module capacity: Six Agilent/Keysight USB modular products Power supply: Integrated 200

W universal AC input Cooling: Two temperature sensors with automatic fan regulation
Synchronization and Timing Internal 10 MHz reference clock per module slot Trigger bus supporting Master/Slave/Star configurations Simultaneous multi-module synchronization
Connectivity High-speed USB 2.0 interface USB Test & Measurement Class (USBTMC-USB488) compliance Hot-swappable module insertion and removal under power Plug-and-play module recognition Software Ecosystem Bundled Agilent Measurement Manager (AMM) or Keysight Measurement Manager (KMM) Supported development environments: Keysight VEE, MATLAB, NI LabVIEW, Microsoft Visual Studio, C#, C++, Visual Basic IVI drivers for custom programming Windows operating system compatibilityKey Features Portable 4U chassis minimizes lab footprint Zero-downtime module swapping during operation Unified trigger and clock distribution across all installed modules 200 W power budget supports simultaneous multi-instrument operationTypical Applications Research and development prototyping, manufacturing test automation, portable field service diagnostics, and multi-function measurement stations.Compatibility & Integration Accepts Agilent/Keysight USB modular instruments including digital multimeters (U2741A), oscilloscopes (U2701A 100 MHz, U2702A 200 MHz), function generators (U2761A), source measure units (U2722A), switch matrices (U2751A 4×8), and DAQ modules (U2500/U2600 Series, U2802A, U2723A).

U281B Characteristics / Specifications

PARAMETER	VALUE
Model	U281B
Instrument Type	Coaxial to waveguide adapter
Waveguide	WR-19
Frequency Range	40 GHz to 60 GHz
Band	U band
Family	HP 281 series
Related X281a	X-band
Related P281b	P-band
Related R281a	R-band WR-28
Manufacturer	HP Agilent Keysight
Form Factor	coax to waveguide adapter
Literature	HP U281B waveguide adapter catalogs
Use Case	40-60 GHz waveguide interconnect
Flange	WR-19
Coax	precision coaxial (see faceplate)
System Impedance	waveguide / 50 ohm coax
Operating Temperature Class	laboratory
Torque	waveguide flange torque
Related Ver Kit	U11645A WR-19
Insertion Loss	adapter IL class
Return Loss	adapter RL class
Brand Lineage	Hewlett Packard Agilent Keysight
Operating temperature	Class: laboratory

U281B Specifications

PARAMETER	VALUE
HP Agilent U281B Coaxial Waveguide Adapter Family	Overview
Applications	Transitioning coaxial 1.85/2.4 mm test ports to WR-19 waveguide.
Precision flange	Used with 8510 mm-wave
Technical Specifications	Model: U281B

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: laboratory
Operating Temperature	Class: laboratory
Operating Temperature Class	laboratory
Torque	waveguide flange torque
Related Ver Kit	U11645A WR-19
Insertion Loss	adapter IL class
Return Loss	adapter RL class
Brand Lineage	Hewlett Packard Agilent Keysight Notes Identity from HP U281B U-band coax-to-waveguide adapter listings (WR-19 40-60 GHz). Coaxial connector type and VSWR table are on the U281B data sheet.

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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Model	U281B
Instrument Type	Coaxial to waveguide adapter
Waveguide	WR-19
Frequency Range	40 GHz to 60 GHz
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Family	HP 281 series
Related X281a	X-band
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Manufacturer	HP Agilent Keysight
Form Factor	coax to waveguide adapter
Literature	HP U281B waveguide adapter catalogs
Use Case	40-60 GHz waveguide interconnect
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Coax	precision coaxial (see faceplate)
System Impedance	waveguide / 50 ohm coax
Operating Temperature Class	laboratory
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Insertion Loss	adapter IL class
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Brand Lineage	Hewlett Packard Agilent Keysight
Notes	
Identity from HP U281B U-band coax-to-waveguide adapter listings (WR-19 40-60 GHz). Coaxial connector type and VSWR table are on the U281B data sheet.	

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.