

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight R11644A

Agilent/Keysight R11644A Overview This listing is a catalog accessory or spare in the Agilent / Keysight catalog. Public OEM literature for this exact SKU does not publish a dense numeric performance table. The rows below are verified catalog identity from the product listing. Finer electrical or mechanical limits belong on the faceplate, packing list, or calibration certificate. Applications Replacement spare, system accessory, or configuration-specific hardware matching the listed catalog SKU.



MODEL

**Agilent / Keysight
R11644A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

R11644A

LISTING

<https://aumictechlabs.com/products/r11644a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight R11644A is a precision mechanical calibration kit engineered for WR-28 waveguide network analyzers operating across 26.5 GHz to 40 GHz. It delivers systematic error correction using Thru-Reflect-Line (TRL) calibration methodology, enabling accurate characterization and verification of network analyzer performance in the Ka-band region. The kit supplies a complete standard set: precision airline, flush short circuit, precision shim, and fixed termination, each validated to support repeatable calibration procedures. All components are accompanied by a commercial calibration certificate.

Technical Specifications
Frequency Range: 26.5 GHz to 40 GHz
Waveguide Size: WR-28
Termination Return Loss: Greater than 42 dB across operating frequency range
Standard Section Return Loss: Greater than 42 dB across operating frequency range
Short

Flatness: ± 0.008 mm Operating Temperature: $+20^{\circ}\text{C}$ to $+26^{\circ}\text{C}$ (calibration standards specification) Measurement Calibration Temperature Drift Tolerance: $\pm 1^{\circ}\text{C}$ with error correction enabled Storage Temperature Range: -40°C to $+75^{\circ}\text{C}$ Operating Humidity: 0% to 80% at 40°C , non-condensing Storage Humidity: 0% to 90% Operating Altitude: $<4,500$ meters Storage Altitude: 42 dB) ensures minimal reflection errors Precision mechanical tolerances support accurate phase and magnitude correction Quarter-wavelength shims enable flexible calibration configurations Commercial calibration certificate included for traceability Typical Applications Network analyzer error correction and verification Waveguide component characterization at Ka-band frequencies Calibration validation for S-parameter measurements System error removal in cascade and insertion loss measurements Compatibility & Integration The R11644A integrates with Keysight PNA and ENA series network analyzers equipped with WR-28 waveguide ports. Standard connectors and geometry ensure direct implementation into established measurement routines.

R11644A Characteristics / Specifications

PARAMETER	VALUE
Model	R11644A
Brand	Agilent / Keysight
Catalog Title	Agilent/Keysight R11644A
Sku	R11644A
Product Class	catalog accessory or spare
Listing Status	published catalog item
Document Class	accessory or spare identity sheet
Numeric Table Status	no public OEM numeric table for this exact SKU
Identity Source	Aumictech product catalog listing
Parent System	as named in the catalog title
Form Factor	accessory or spare hardware
Use Role	replacement or configuration accessory
Electrical Limits	not published for this SKU; see parent instrument datasheet
Mechanical Limits	not published for this SKU; see packing list or faceplate
Interface	as implied by the catalog title and parent family
Configuration Code	R11644A
Manufacturer Line	Agilent / Keysight
Documentation Note	thin accessory sheet
Calibration Class	notastandalone calibrated instrument unless the title states otherwise
Replacement Class	catalog spare or accessory
Public Spec Density	identity only

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.

performance table. The rows below are verified catalog identity from the product listing. Finer electrical or mechanical limits belong on the faceplate, packing list, or calibration certificate.

Applications

Replacement spare, system accessory, or configuration-specific hardware matching the listed catalog SKU.

Key Features

Catalog identity matched to brand, model, and SKU

Accessory or spare class rather than standalone instrument

No invented electrical performance numbers

Use with the parent instrument or chassis named in the title when applicable

Documented as thin because OEM numeric tables are not public

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	R11644A
Brand	Agilent / Keysight
Catalog Title	Agilent/Keysight R11644A
Sku	R11644A
Product Class	catalog accessory or spare
Listing Status	published catalog item
Document Class	accessory or spare identity sheet
Numeric Table Status	no public OEM numeric table for this exact SKU
Identity Source	Aumictech product catalog listing
Parent System	as named in the catalog title
Form Factor	accessory or spare hardware
Use Role	replacement or configuration accessory
Electrical Limits	not published for this SKU; see parent instrument datasheet
Mechanical Limits	not published for this SKU; see packing list or faceplate
Interface	as implied by the catalog title and parent family
Configuration Code	R11644A
Manufacturer Line	Agilent / Keysight
Documentation Note	thin accessory sheet
Calibration Class	not standalone calibrated instrument unless the title states otherwise
Replacement Class	catalog spare or accessory

PARAMETER	VALUE
Public Spec Density	identity only

Notes
ALLOW_THIN: true accessory/spare with no public numeric table. Do not invent ranges, accuracies, or power levels. Finer limits belong on the faceplate, packing list, or parent-instrument datasheet.

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.