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**Data Sheet**

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ANRITSU

# Anritsu 37269E Passive Vector Network Analyzer, 40 MHz to 40 GHz

Anritsu 37269E Passive Vector Network Analyzer 40 MHz to 40 GHz The Anritsu 37269E is a two-port passive vector network analyzer in the Lightning 37200E series covering 40 MHz to 40 GHz for S-parameter measurement of mainly passive devices. It provides high measurement speed, GPIB/RS-232/LAN control, and a 12.1-inch color display for R&D and production microwave component test. The Anritsu 37269E is a two-port passive vector network analyzer in the Lightning 37200E series covering 40 MHz to 40 GHz for S-parameter measurement of mainly passive devices. It provides high measurement speed, GPIB/RS-232/LAN control, and a 12.1-inch color display for R&D and production microwave component test.



MODEL

**Anritsu 37269E**

CALIBRATION

**Available on request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**37269E**

LISTING

<https://aumictechlabs.com/products/37269e-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

## This unit

The Anritsu 37269E is a passive vector network analyzer that measures S-parameters and user-defined wave quantities across the 40 MHz to 40 GHz frequency band. Purpose-built for characterizing passive RF devices including filters, antennas, and transmission line networks, it delivers high dynamic range and measurement accuracy in both manual and automated

laboratory environments. Technical Specifications Frequency coverage spans 40 MHz to 40 GHz. The instrument measures S11, S21, S22, S12, and user-defined combinations of wave quantities a1, a2, b1, and b2. Maximum 1601 data points with continuous sweep capability from N = 2 to 1601 discrete points per measurement. Measurement domains include frequency domain, CW draw, and optional high-speed time (distance) domain. Display formats encompass log magnitude, phase, log magnitude and phase, Smith chart (impedance and admittance), linear polar, log polar, group delay, linear magnitude, linear magnitude and phase, real, imaginary, real and imaginary, SWR, and power out. Test ports are universal K male connectors (standard); Option 15 provides K-female ports. Calibration methods include SOLT, offset short, waveguide, commercially available multiple line kits for metrology-grade LRL/LRM, adapter removal, and AutoCal® automatic precision modules for coaxial calibrations to 40 GHz. Key Features Swept power and frequency gain compression measurements for amplifier characterization Direct frequency translation analysis via NxN multiple device solution utility Multiport testing with balanced and differential measurement support Optoelectronic device measurement with de-embedding and photo detector transfer function analysis Embedding and de-embedding routines for fixture removal and structure effect simulation 8 GB SD card internal storage for measurement, calibration data, and front-panel setups USB Type A port for external memory device connectivity (text, S2P, bitmap export) Dual GPIB ports (system and dedicated) for external controller integration Option 4A secure storage on separate SD card Typical Applications Amplifier testing, mixer characterization, multiport device analysis, optoelectronic component evaluation, and fixture de-embedding workflows. Compatibility & Integration USB memory devices and SD card storage enable portable data management. Dual GPIB interface supports integration into automated test systems and external control architectures.

## Features & description

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From manufacturer datasheet

### Features

- Frequency coverage 40 MHz to 40 GHz
- Two port passive VNA configuration
- High measurement speed about 3 us per point class
- Dynamic range about 100 dB class
- GPIB RS-232 and LAN interfaces
- 12.1 inch color LCD display

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### Applications

- S11 and S21 passive device characterization to 40 GHz
- Filter amplifier coupler and adapter VNA testing
- Production and R&D microwave QA
- Time domain Option 2A cable and discontinuity analysis

## 37269E Characteristics / Specifications

| PARAMETER                         | VALUE                                    |
|-----------------------------------|------------------------------------------|
| Model                             | 37269E                                   |
| Manufacturer                      | Anritsu / Wiltron                        |
| Instrument Type                   | Passive Vector Network Analyzer          |
| Alias                             | 37269E; Anritsu 37269E; Lightning 37200E |
| Frequency range                   | 40 MHz to 40 GHz                         |
| Number of ports                   | 2                                        |
| Measurement parameters            | S parameters reflection and transmission |
| Dynamic range class               | about 100 dB                             |
| Measurement accuracy class        | plus or minus 0.5 dB                     |
| Measurement points                | 201 typical configuration class          |
| Measurement speed                 | about 3 us per point                     |
| Output power range                | -45 dBm to +10 dBm                       |
| Test port connector               | K 2.92 mm female class                   |
| Directivity at 0.04 GHz           | greater than 42 dB                       |
| Directivity at 2 GHz              | greater than 42 dB                       |
| Directivity at 20 GHz             | greater than 42 dB                       |
| Directivity at 40 GHz             | greater than 38 dB                       |
| Reflection tracking at 0.04 GHz   | plus or minus 0.005 dB                   |
| Transmission tracking at 0.04 GHz | plus or minus 0.030 dB                   |
| Isolation at 0.04 GHz             | greater than 105 dB                      |
| Isolation at 20 GHz               | greater than 110 dB                      |
| Display                           | 12.1 inch color LCD                      |
| Remote interfaces                 | GPIO RS-232 LAN                          |
| Weight                            | about 33.5 kg (73.8 lb)                  |
| Family                            | 37200E passive series                    |

| PARAMETER                    | VALUE  |
|------------------------------|--------|
| Related 20 GHz model         | 37247E |
| Related 65 GHz model         | 37297E |
| Related active device series | 37369E |

# 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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| PARAMETER                         | VALUE                                    |
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| Manufacturer                      | Anritsu / Wiltron                        |
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| Test port connector               | K 2.92 mm female class                   |
| Directivity at 0.04 GHz           | greater than 42 dB                       |
| Directivity at 2 GHz              | greater than 42 dB                       |
| Directivity at 20 GHz             | greater than 42 dB                       |
| Directivity at 40 GHz             | greater than 38 dB                       |
| Reflection tracking at 0.04 GHz   | plus or minus 0.005 dB                   |
| Transmission tracking at 0.04 GHz | plus or minus 0.030 dB                   |
| Isolation at 0.04 GHz             | greater than 105 dB                      |
| Isolation at 20 GHz               | greater than 110 dB                      |
| Display                           | 12.1 inch color LCD                      |
| Remote interfaces                 | GPiB RS-232 LAN                          |
| Weight                            | about 33.5 kg (73.8 lb)                  |
| Family                            | 37200E passive series                    |
| Related 20 GHz model              | 37247E                                   |

| PARAMETER                    | VALUE  |
|------------------------------|--------|
| Related 65 GHz model         | 37297E |
| Related active device series | 37369E |

Option 2A: high speed time domain

Notes

Specs from Anritsu Lightning 37000E Series technical data sheet and calibration listings for 37269E (40 MHz-40 GHz). Confirm installed options (2A time domain, test set, cables) and calibration kit on the system.

### Available from Aumictech

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

Request a quote: [sales@aumictech.com](mailto: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.