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Data Sheet

August 3, 2026

KEYSIGHT

Keysight N4691D Electronic Calibration Module (ECal), 26.5 GHz, 3.5 mm, 2-port

Keysight N4691D Electronic Calibration Module (ECal), 26.5 GHz, 3.5 mm, 2-port The Keysight N4691D is a 2-port microwave electronic calibration (ECal) module covering through 26.5 GHz with 3.5 mm connectors. ECal modules store characterized standards and automate VNA calibration via USB control, replacing mechanical open/short/load/thru kits for fast, repeatable calibrations. 2-port VNA calibration to 26.5 GHz; production and R&D S-parameter measurement setup; replacing mechanical cal kits for speed and repeatability. The Keysight N4691D is a 2-port microwave electronic calibration (ECal) module covering through 26.5 GHz with 3.5 mm connectors. ECal modules store characterized standards and automate VNA calibration via USB control, replacing mechanical open/short/load/thru kits for fast, repeatable calibrations. 2-port VNA calibration to 26.5 GHz; production and R&D S-parameter measurement setup; replacing mechanical cal kits for speed and repeatability.



MODEL

Keysight N4691D

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

N4691D

LISTING

<https://aumictechlabs.com/products/n4691d-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N4691D is a 2-port electronic calibration (ECal) module that automates vector network analyzer calibration across DC to 26.5 GHz. Equipped with 3.5 mm connectors and internal memory for calibration data, this module eliminates manual calibration steps, reducing

setup errors and improving measurement repeatability. VNA control via compatible software enables fast, accurate calibration in laboratory and production test environments.

Technical Specifications

- Frequency Range: DC to 26.5 GHz
- Number of Ports: 2-port
- Connector Type: 3.5 mm
- Impedance: 50 Ohms nominal
- Calibration Type: Full 2-port calibration (SOLT, S2P, dependent on VNA compatibility)
- Data Storage: Internal memory for calibration data
- Operation: Automated, controlled via compatible VNA software

Key Features

- Automated calibration controlled directly from the VNA interface
- Reduces manual calibration steps and associated operator error
- Internal memory stores calibration coefficients and reference data
- Full 2-port calibration capability with standard methods
- 50 Ohm impedance matching for standard RF applications

Typical Applications

- Benchtop vector network analyzer calibration
- Production line VNA verification and re-calibration
- Laboratory RF and microwave characterization
- Time-critical measurement environments requiring rapid calibration cycles

Compatibility & Integration

The N4691D is compatible with Keysight VNAs equipped with ECal functionality. Operation requires compatible VNA control software; specific VNA models and firmware versions should be verified prior to deployment to ensure full compatibility and proper calibration coefficient loading.

Features & description

From manufacturer datasheet

Features

- Frequency: through 26.5 GHz (N4691D) • Ports: 2 • Connectors: 3.5 mm • Type: Electronic Calibration (ECal) module • USB control from Keysight VNAs / firmware • Characterized standards stored in module memory

N4691D Characteristics / Specifications

PARAMETER	VALUE
Model	N4691D
Manufacturer	Keysight Technologies
Instrument Type	Electronic Calibration Module (ECal)
Alias	N4691D; Keysight N4691D ECal RF
Frequency Coverage	300 kHz to 26.5 GHz (Option 003) or DC to 26.5 GHz (Option 0DC)
Ports	2
Connector Type	3.5 mm
Connector Sex Options	M0M (male/male), F0F (female/female), M0F (male/female) Control
Interface	USB direct from Keysight VNAs
Calibration	Automated full two-port ECal (faster / fewer connections than mechanical) Operational Notes Do not confuse with N4691B or N4690D/N4692D. Prefer Keysight N4691D product page / ECal overview 5963-3743 for uncertainty and option tables.
Frequency	through 26.5 GHz (N4691D)
Connectors	3.5 mm
Type	Electronic Calibration (ECal) module

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	N4691D
Manufacturer	Keysight Technologies
Instrument Type	Electronic Calibration Module (ECal)
Alias	N4691D; Keysight N4691D ECal

RF

Specifications

PARAMETER	VALUE
Frequency Coverage	300 kHz to 26.5 GHz (Option 003) or DC to 26.5 GHz (Option 0DC)
Ports	2
Connector Type	3.5 mm
Connector Sex Options	M0M (male/male), F0F (female/female), M0F (male/female)

Control

Interface: USB direct from Keysight VNAs

Calibration: Automated full two-port ECal (faster / fewer connections than mechanical)

Operational Notes

Do not confuse with N4691B or N4690D/N4692D. Prefer Keysight N4691D product page / ECal overview 5963-3743 for uncertainty and option tables.

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.