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Data Sheet

August 3, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) N4690D Electronic Calibration Module (ECal), 18 GHz, Type-N, 50 OHM, 2-Port

Keysight (Agilent) N4690D Electronic Calibration Module (ECal), 18 GHz, Type-N, 50 Ohm, 2-Port The Keysight N4690D is a 2-port microwave electronic calibration (ECal) module with Type-N 50 Ω connectors covering through 18 GHz (300 kHz or DC start depending on option). Characterized standards in module memory enable fast automated VNA calibration via USB. 2-port Type-N VNA calibration to 18 GHz; production and R&D S-parameter setup; replacing mechanical Type-N cal kits. The Keysight N4690D is a 2-port microwave electronic calibration (ECal) module with Type-N 50 Ω connectors covering through 18 GHz (300 kHz or DC start depending on option). Characterized standards in module memory enable fast automated VNA calibration via USB. 2-port Type-N VNA calibration to 18 GHz; production and R&D S-parameter setup; replacing mechanical Type-N cal kits.



MODEL

**Keysight / Agilent
N4690D**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N4690D

LISTING

<https://aumictechlabs.com/products/n4690d-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N4690D is a 2-port electronic calibration module (ECal) engineered for rapid, accurate calibration of Keysight vector network analyzers operating to 18 GHz. This device eliminates manual calibration procedures by providing single-connection electronic calibration

traceable to NIST standards. Direct USB control from compatible Keysight VNAs removes the need for external PC infrastructure, streamlining workflow and reducing operator error.

Technical Specifications

Frequency Range: 300 kHz to 18 GHz (standard); DC to 18 GHz optional (Option 0DC)

Impedance: 50 Ohm

Ports: 2-port configuration

Connector Type: Type-N Connector

Options: Male/Male (M0M), Female/Female (F0F), Male/Female (M0F)

Maximum Applied Power: +9 dBm (calibration accuracy may degrade above this level)

Calibration Method: Electronic calibration with NIST traceability

Interface: USB for direct VNA control

Key Features

Single-connection calibration architecture reduces setup time and procedural complexity

DC to 18 GHz option (0DC) supports broadband device modeling, time-domain analysis, and signal integrity applications

Interchangeable Type-N connectors accommodate various test configurations

Integrated storage case included

NIST-traceable calibration standards ensure measurement confidence

Compatibility & Integration

The N4690D integrates directly with Keysight ENA, PNA, PXI VNA, and FieldFox series analyzers via USB. No external computer or control software is required. The module belongs to the N469xD series ECal family, ensuring compatibility across related Keysight calibration platforms.

Features & description

From manufacturer datasheet

Features

- Frequency: DC/300 kHz to 18 GHz (Option 0DC or 003) • Connectors: Type-N 50 Ω • Ports: 2 • Connector sex options: MOM, F0F, M0F • USB control from Keysight VNAs • Precision characterized electronic standards

N4690D Characteristics / Specifications

PARAMETER	VALUE
Model	N4690D
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Electronic Calibration Module (ECal)
Alias	N4690D; Agilent N4690D RF
Frequency Coverage	300 kHz to 18 GHz (Option 003) or DC to 18 GHz (Option 0DC)
Connector Type	Type-N 50 Ω
Ports	2
Connector configurations	male/male, female/female, male/female Control USB direct from Keysight vector network analyzers Full two-port ECal with fewer connections than mechanical kits Operational Notes Do not confuse with N4690C (prior generation) or N4691D (3.5 mm to 26.5 GHz). Prefer Keysight N469xD ECal overview / reference guide.
Frequency	DC/300 kHz to 18 GHz (Option 0DC or 003)
Connectors	Type-N 50 Ω
Connector sex options	M0M, F0F, M0F

N4690D Specifications

PARAMETER	VALUE
Applications	2-port Type-N VNA calibration to 18 GHz; production and R&D S-parameter setup; replacing mechanical Type-N cal kits.
Key Features	- Frequency: DC/300 kHz to 18 GHz (Option 0DC or 003)
Technical Specifications	Model: N4690D
Operational Notes	Do not confuse with N4690C (prior generation) or N4691D (3.5 mm to 26.5 GHz). Prefer Keysight N469xD ECal overview / reference guide.

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	N4690D
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Electronic Calibration Module (ECal)
Alias	N4690D; Agilent N4690D

RF

Specifications

PARAMETER	VALUE
Frequency Coverage	300 kHz to 18 GHz (Option 003) or DC to 18 GHz (Option 00C)
Connector Type	Type-N 50 Ω
Ports	2
Connector configurations	male/male, female/female, male/female

Control

USB direct from Keysight vector network analyzers

Full two-port ECal with fewer connections than mechanical kits

Operational Notes

Do not confuse with N4690C (prior generation) or N4691D (3.5 mm to 26.5 GHz). Prefer Keysight N469xD ECal overview / reference guide.

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.