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Data Sheet

August 12, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) N4690C Electronic Calibration Module (ECal), 300 kHz to 18 GHz, Type-N, 50 OHM, 2-Port

Keysight / Agilent N4690C Electronic Calibration Module (ECal), Type-N 50 Ω , 2-Port The N4690C is a 2-port Type-N 50 Ω microwave ECal covering 300 kHz to 18 GHz. Configurable male/female port genders (M0F / 00M / 00F options). USB ECal for PNA/ENA and FieldFox-class analyzers. The N4690C is a 2-port Type-N 50 Ω microwave ECal covering 300 kHz to 18 GHz. Configurable male/female port genders (M0F / 00M / 00F options). USB ECal for PNA/ENA and FieldFox-class analyzers.



MODEL

**Keysight / Agilent
N4690C**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N4690C

LISTING

<https://aumictechlabs.com/products/n4690c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight (Agilent) N4690C is a 2-port electronic calibration module (ECal) that automates VNA calibration across 300 kHz to 18 GHz. Type-N connectors with 50 Ohm impedance enable full two-port calibration via single connection, eliminating manual mechanical kit procedures and reducing setup time. The module stores unique S-parameter data that computes error terms for the vector network analyzer, delivering NIST traceable accuracy. Solid-state switching and USB control minimize operator error while improving measurement repeatability. Technical

Specifications Frequency Range: 300 kHz to 18 GHz Ports: 2-port configuration Impedance: 50 Ohm Connectors: Type-N (male/male, female/female, or male/female options available) Control Interface: USB Switching Technology: Solid-state Accuracy: NIST traceableElectrical Characteristics Maximum Input Power: +9 dBm Minimum Input Power: -45 dBm Directivity: 43 dB to 50 dB (frequency dependent) Source Match: 36 dB to 48 dB (frequency dependent) Reflection Tracking: ± 0.03 dB to ± 0.15 dB (frequency dependent) Transmission Tracking: ± 0.05 dB to ± 0.11 dB (frequency dependent) Load Match: 36 dB to 42 dB (frequency dependent)Key Features Single-connection full two-port calibration eliminates multi-step mechanical procedures Transfer standard design with embedded S-parameter data ensures consistent accuracy Shorter female connector design enhances mechanical repeatability Operating temperature: +20 °C to +26 °C Environmental tolerance: Up to 95% relative humidity, non-condensingTypical Applications RF and microwave VNA calibration Laboratory and field measurement verification Production test environments requiring frequent recalibrationCompatibility & Integration Supported on Keysight PNA Series (N522X, N523X, N524X) and ENA Series vector network analyzers.

Features & description

From manufacturer datasheet

Features

• Ports: 2 • Frequency range: 300 kHz to 18 GHz • Connector: Type-N 50 Ω • Gender options: M0F, 00M, 00F (module PNs N4690-60004 / 60005 / 60006 class) • Calibration: full 2-port ECal, single connection • Supported on FieldFox with USB ECal (N4690D successor also cited in newer FieldFox sheets) • Switching: solid-state electronic standards

Applications

• Full 2-port Type-N calibration • FieldFox and bench VNA single-connection cal • Mixed gender Type-N setups via option codes

N4690C Characteristics / Specifications

PARAMETER	VALUE
Model	N4690C
Manufacturer	Keysight / Agilent
Instrument Type	2-Port Electronic Calibration Module
Alias	N4690C; Agilent N4690C; Keysight N4690C
Frequency range	300 kHz to 18 GHz
Ports	2
Connector	Type-N 50 Ω
Gender options	M0F, 00M, 00F (module PNs N4690-60004 / 60005 / 60006 class)
Calibration	full 2-port ECal Notes Specs from Keysight legacy ECal reference guide and FieldFox configuration literature. Confirm gender option and cal due date on the module.
Switching	solid-state electronic standards

N4690C Specifications

PARAMETER	VALUE
Applications	- Full 2-port Type-N calibration
Key Features	- Ports: 2
Technical Specifications	Model: N4690C

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	N4690C
Manufacturer	Keysight / Agilent
Instrument Type	2-Port Electronic Calibration Module
Alias	N4690C; Agilent N4690C; Keysight N4690C

Specifications

PARAMETER	VALUE
Frequency range	300 kHz to 18 GHz
Ports	2
Connector	Type-N 50 Ω
Gender options	M0F / 00M / 00F
Calibration	full 2-port ECal

Notes
Specs from Keysight legacy ECal reference guide and FieldFox configuration literature. Confirm gender option and cal due date on the module.

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.