

**Aumictech**

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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N4694D

Agilent Keysight N4694D Microwave ECal Module 1.85 mm DC to 67 GHz (code 0DC) The Keysight N4694D isaprecision 2-port N469xD Series microwave ECal module with 1.85 mm connectors. OEM ECal technical overview 5963-3743 lists 10 MHz to 67 GHz (code 100) as the standard low-frequency edge (or 10 MHz on 40/50/67 GHz models) and DC to 67 GHz (code 0DC) with 0DC. 1.85 mm precision ECal to 67 GHz. Precision full two-port VNA calibration for microwave devices, broadband modeling, and enhanced time-domain/TDR work when 0DC is installed. The Keysight N4694D isaprecision 2-port N469xD Series microwave ECal module with 1.85 mm connectors. OEM ECal technical overview 5963-3743 lists 10 MHz to 67 GHz (code 100) as the standard low-frequency edge (or 10 MHz on 40/50/67 GHz models) and DC to 67 GHz (code 0DC) with 0DC. 1.85 mm precision ECal to 67 GHz. Precision full two-port VNA calibration for microwave devices, broadband modeling, and enhanced time-domain/TDR work when 0DC is installed. Precision microwave residual errors versus economy N755xA



MODEL

**Agilent / Keysight
N4694D**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N4694D

LISTING

<https://aumictechlabs.com/products/n4694d-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight N4694D is a 2-port electronic calibration module that automates VNA calibration using precision, traceable electronic standards. It connects directly to Keysight vector network analyzers via USB, eliminating external PC requirements and reducing calibration time

while minimizing operator-induced errors. Technical Specifications Ports: 2-port, 50 Ω configuration Frequency Range: 10 MHz to 67 GHz; DC to 67 GHz with Option 0DC Connector Type: 1.85 mm Connector Options: Male-to-male (M0M), female-to-female (F0F), male-to-female (M0F) Calibration Type: Full two-port electronic calibration Control Interface: Direct USB integration with host VNAKey Features Traceable Electronic Standards: High-accuracy calibration derived from verifiable electronic standards rather than mechanical components Automated Calibration: VNA firmware controls the calibration process directly, eliminating manual connection steps and associated errors Reduced Connector Wear: Electronic standards minimize physical mating cycles compared to mechanical calibration kits, extending connector and standard lifespan Extended Frequency Coverage: Option 0DC capability supports DC frequencies for broadband device modeling and time-domain analysis Included Storage Case: Protective plastic case included for module and accessory protectionTypical Applications Automated vector network analyzer calibration across DC to 67 GHz Broadband device characterization and modeling Signal integrity and time-domain measurement support Production and field test environments requiring minimal downtimeCompatibility & Integration The N4694D integrates directly with Keysight ENA, PNA, PXI VNA, and FieldFox analyzers via USB control. No external calibration software or personal computer is required for operation. The 1.85 mm connector interface supports multiple gender configurations to accommodate diverse test port geometries.

N4694D Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Two port microwave electronic calibration module
Series Family	Keysight N469xD microwave ECal
Port Count	2
Control Interface	USB from Keysight VNA firmware (no external PC required)
Operating Temperature	plus 20 C to plus 26 C
Typical Maximum Input Power	minus 5 dBm (calibration degrades above this)
Typical Maximum Dc Level	plus or minus 10 V
Typical Damage Level	plus 10 dBm
Zero Dc Code	0DC extends the low edge to DC
Connector Genders	M0F mixed, M0M male-male, F0F female-female
Literature	Keysight ECal modules technical overview 5963-3743 and N469xD fact sheet 5992-2768
Supported Analyzers	PNA, PNA-X, ENA (except N4693D/N4694D on some ENA models), PXI VNA, Streamline, FieldFox CPU2 class
User Characterization	adapters or fixtures can be embedded in module flash
Precision Class	microwave precision ECal versus N755xA economy ECal
Connector Type	1.85 mm
Frequency Standard Code	10 MHz to 67 GHz (code 100)
Frequency With 0DC	DC to 67 GHz (code 0DC)
Directivity 0DC Dc To 45 MHz	41 dB
Directivity Code 100 10 To 45 MHz	27 dB
Directivity 45 To 200 MHz	41 dB
Directivity 200 MHz To 2 GHz	41 dB
Directivity 2 To 20 GHz	42 dB
Directivity 20 To 30 GHz	41 dB
Directivity 30 To 40 GHz	40 dB

PARAMETER	VALUE
Directivity 40 To 50 GHz	38 dB
Directivity 50 To 60 GHz	35 dB
Directivity 60 To 67 GHz	33 dB
Source Match 2 To 20 GHz	39 dB
Source Match 20 To 30 GHz	35 dB
Source Match 30 To 40 GHz	34 dB
Source Match 40 To 50 GHz	33 dB
Source Match 50 To 60 GHz	30 dB
Source Match 60 To 67 GHz	26 dB
Reflection Tracking 2 To 20 GHz	plus or minus 0.04 dB
Reflection Tracking 60 To 67 GHz	plus or minus 0.12 dB
Low Edge Code 1	10 MHz start
Ena Note	N4694D is not supported on E5071C, E5072A, E5061B, and E5063A per 5963-3743

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	plus 20 C to plus 26 C
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Directivity 20 To 30 GHz	41 dB
Directivity 30 To 40 GHz	40 dB
Directivity 40 To 50 GHz	38 dB
Directivity 50 To 60 GHz	35 dB
Directivity 60 To 67 GHz	33 dB

PARAMETER	VALUE
Source Match 2 To 20 GHz	39 dB
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Source Match 30 To 40 GHz	34 dB
Source Match 40 To 50 GHz	33 dB
Source Match 50 To 60 GHz	30 dB
Source Match 60 To 67 GHz	26 dB
Reflection Tracking 2 To 20 GHz	plus or minus 0.04 dB
Reflection Tracking 60 To 67 GHz	plus or minus 0.12 dB
Low Edge Code 1	10 MHz start
Ena Note	N4694D is not supported on E5071C, E5072A, E5061B, and E5063A per 5963-3743 Notes Connector, frequency codes, temperature, input-power, and residual-error rows from Keysight Electronic Calibration (ECal) Modules technical overview 5963-3743 model N4694D. Residual-error tables apply when applied power does not exceed minus 5 dBm.

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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Directivity 200 MHz To 2 GHz	41 dB
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Directivity 20 To 30 GHz	41 dB
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PARAMETER	VALUE
Directivity 50 To 60 GHz	35 dB
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Source Match 2 To 20 GHz	39 dB
Source Match 20 To 30 GHz	35 dB
Source Match 30 To 40 GHz	34 dB
Source Match 40 To 50 GHz	33 dB
Source Match 50 To 60 GHz	30 dB
Source Match 60 To 67 GHz	26 dB
Reflection Tracking 2 To 20 GHz	plus or minus 0.04 dB
Reflection Tracking 60 To 67 GHz	plus or minus 0.12 dB
Low Edge Code 100	10 MHz start
Ena Note	N4694D is not supported on E5071C, E5072A, E5061B, and E5063A per 5963-3743

Notes

Connector, frequency codes, temperature, input-power, and residual-error rows from Keysight Electronic Calibration (ECal) Modules technical overview 5963-3743 model N4694D. Residual-error tables apply when applied power does not exceed minus 5 dBm.

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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NIST-traceable calibration · SAM registered ·
30-day returns
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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.