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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N4696D

Agilent Keysight N4696D Microwave ECal Module 7 mm DC to 18 GHz (code 0DC) The Keysight N4696D isaprecision 2-port N469xD Series microwave ECal module with 7 mm connectors. OEM ECal technical overview 5963-3743 lists 300 kHz to 18 GHz (code 003) as the standard low-frequency edge (or 10 MHz on 40/50/67 GHz models) and DC to 18 GHz (code 0DC) with 0DC. 7 mm precision ECal to 18 GHz. Precision full two-port VNA calibration for microwave devices, broadband modeling, and enhanced time-domain/TDR work when 0DC is installed. The Keysight N4696D isaprecision 2-port N469xD Series microwave ECal module with 7 mm connectors. OEM ECal technical overview 5963-3743 lists 300 kHz to 18 GHz (code 003) as the standard low-frequency edge (or 10 MHz on 40/50/67 GHz models) and DC to 18 GHz (code 0DC) with 0DC. 7 mm precision ECal to 18 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
N4696D****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****N4696D****LISTING**<https://aumictechlabs.com/products/n4696d-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight N4696D is a 2-port electronic calibration module engineered for rapid, automated calibration of Keysight vector network analyzers. It eliminates the connection overhead and mechanical wear associated with traditional calibration kits by performing electronic calibration

via firmware control - all through a single connection to the instrument. The module features 7 mm connectors and operates across 300 kHz to 18 GHz. An optional ODC configuration extends the frequency range to DC, enabling broadband device modeling and time-domain signal integrity measurements. Control is direct from the network analyzer over USB, and calibration standards are traceable to the National Metrology Institute.

Technical Specifications

Frequency Coverage: 300 kHz to 18 GHz; DC to 18 GHz (Option ODC)

Ports: 2-port

Impedance: 50 Ω

Connector Type: 7 mm

Control Interface: USB (direct from vector network analyzer)

Key Features

- Firmware-controlled calibration reduces operator error and measurement time
- Single-connection calibration simplifies routine and setup
- Minimized connector wear through reduced mechanical connections
- NMI-traceable calibration standards for measurement assurance
- Plastic storage case and torque wrench included

Typical Applications

- Device characterization requiring extended DC-to-18 GHz coverage (with Option ODC)
- Broadband modeling and time-domain analysis
- Signal integrity measurements
- Production test environments where calibration speed and repeatability are critical

Compatibility & Integration

Supported Analyzers: Keysight ENA, PNA, PXI VNA, FieldFox, and USB VNAs

Connector Variants: Mixed connector options (male-male, female-female, male-female) available within the N469xD series

N4696D 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	7 mm
Frequency Standard Code	300 kHz to 18 GHz (code 003)
Frequency With 0DC	DC to 18 GHz (code 0DC)
Directivity 0DC Dc To 2 MHz	46 dB
Directivity 0DC 2 To 10 MHz	46 dB
Directivity Code 003 300 kHz To 2 MHz	30 dB
Directivity Code 003 2 To 10 MHz	40 dB
Directivity 10 To 500 MHz	46 dB
Directivity 500 MHz To 2 GHz	45 dB
Directivity 2 To 10 GHz	44 dB

PARAMETER	VALUE
Directivity 10 To 18 GHz	41 dB
Source Match 10 To 500 MHz	40 dB
Source Match 500 MHz To 2 GHz	40 dB
Source Match 2 To 10 GHz	42 dB
Source Match 10 To 18 GHz	36 dB
Reflection Tracking 10 To 500 MHz	plus or minus 0.05 dB
Reflection Tracking 500 MHz To 2 GHz	plus or minus 0.03 dB
Reflection Tracking 2 To 10 GHz	plus or minus 0.03 dB
Reflection Tracking 10 To 18 GHz	plus or minus 0.05 dB
Adapter Pair Code 00A	not available for 7 mm N4696D
Gender Codes	7 mm sexless connector (M0F/M0M/F0F not applicable)

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	plus 20 C to plus 26 C
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Gender Codes	7 mm sexless connector (M0F/M0M/F0F not applicable) Notes Connector, frequency codes, temperature, input-power, and residual-error rows from Keysight Electronic Calibration (ECal) Modules technical overview 5963-3743 model N4696D. 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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Specifications	
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Directivity Code 003 2 To 10 MHz	40 dB
Directivity 10 To 500 MHz	46 dB

PARAMETER	VALUE
Directivity 500 MHz To 2 GHz	45 dB
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Notes

Connector, frequency codes, temperature, input-power, and residual-error rows from Keysight Electronic Calibration (ECal) Modules technical overview 5963-3743 model N4696D. 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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.