

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N7555A

Agilent Keysight N7555A Economy ECal Module DC to 26.5 GHz The Keysight N7555A is a 2-port N755xA Series economy electronic calibration (ECal) module covering DC to 26.5 GHz. OEM N755xA fact sheet 5992-2547 and ECal technical overview 5963-3743 list 50 ohm 2-port operation, USB control from the VNA, no warm-up, 77 × 29 × 27 mm housing, and economy-mechanical-kit-class residual errors down to DC. Fast full two-port VNA calibration of insertable or non-insertable 50 ohm devices; FieldFox, ENA, PNA, PXI, and Streamline Series USB VNAs. The Keysight N7555A is a 2-port N755xA Series economy electronic calibration (ECal) module covering DC to 26.5 GHz. OEM N755xA fact sheet 5992-2547 and ECal technical overview 5963-3743 list 50 ohm 2-port operation, USB control from the VNA, no warm-up, 77 × 29 × 27 mm housing, and economy-mechanical-kit-class residual errors down to DC. Fast full two-port VNA calibration of insertable or non-insertable 50 ohm devices; FieldFox, ENA, PNA, PXI, and Streamline Series USB VNAs. Single-connection ECal versus mechanical open/short/load/thru kits

**MODEL****Agilent / Keysight
N7555A****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****N7555A****LISTING**<https://aumictechlabs.com/products/n7555a-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The N7555A is a 2-port electronic calibration module engineered to accelerate VNA calibration workflows across DC to 26.5 GHz. This value-line ECal accessory cuts calibration time approximately in half compared to traditional mechanical kits, delivering zero wait time for faster

measurement setup. Communication and control occur via a single USB 2.0 micro-interface connection, eliminating the need for complex multi-step calibration procedures.

Technical Specifications
Frequency Range: DC to 26.5 GHz
Port Configuration: 2-port
Connector Type: 3.5 mm (available in female, male, or mixed configurations)
Interface: USB 2.0 micro-interface
Calibration Performance: Approximately 50% reduction in calibration time versus mechanical kits
Form Factor: Compact accessory design

Key Features
Zero wait time enables faster calibration cycles
Cost-effective replacement strategy - more economical than recertification
Compact, lightweight form factor optimized for portable and bench-top deployment
Economy-class performance with ECal convenience
Firmware-controlled operation integrated with host VNA instrumentation

Typical Applications
Research and development characterization
Manufacturing test environments
High-volume production testing
Multiport measurements including High-PA/FEM, massive MIMO, and high-speed digital interconnect validation

Compatibility & Integration
The N7555A integrates directly with Keysight's PNA-X, PNA, ENA, and PXI vector network analyzers, as well as FieldFox handheld analyzers. Connector configuration options accommodate standard 3.5 mm female (Option 3FF), male (Option 3MM), or mixed-gender (Option 3MF) requirements. Full two-port calibrated measurements operate through a single USB connection with no additional cabling or external control systems required.

N7555A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Two port economy electronic calibration module
Series Family	Keysight N755xA economy ECal
Port Count	2
System Impedance	50 ohm
Control Interface	USB from Keysight VNA firmware (no external PC required)
Warm Up	none required; start calibration immediately
Module Size HxWxD	77 mm x 29 mm x 27 mm
Operating Temperature	plus 15 C to plus 35 C
Operating Humidity	up to 75 percent RH
Typical Maximum Input Power	minus 15 dBm (calibration degrades above this)
Typical Maximum Dc Level	0 V on test port
Typical Damage Level	plus 10 dBm
Supported Analyzers	Keysight ENA, PNA, PXI VNA, Streamline Series USB VNA, FieldFox (CPU2 class for N755xA)
Connector Gender Codes	3FF 3MF 3MM (3.5 mm); NFF NMF NMM (Type-N 50 ohm, models to 18 GHz)
Storage Accessory	plastic storage box code 150
Torque Accessory 3p	N7550X-151 3.5 or 2.92 mm torque wrench
Torque Accessory Type N	N7550X-152 Type-N torque wrench
Literature	Keysight ECal modules technical overview 5963-3743 and N755xA product fact sheet 5992-2547
Directivity Dc To 500 MHz	42 dB (3.5 mm or Type-N tables)
Source Match Dc To 500 MHz	37 dB
Reflection Tracking Dc To 500 MHz	plus or minus 0.13 dB
Frequency Range	DC to 26.5 GHz
Connector Types	3.5 mm only (Type-N not offered at 26.5 GHz)
Directivity 500 MHz To 4 GHz	36 dB

PARAMETER	VALUE
Source Match 500 MHz To 4 GHz	30 dB
Reflection Tracking 500 MHz To 4 GHz	plus or minus 0.13 dB
Directivity 4 To 6.5 GHz	36 dB
Source Match 4 To 6.5 GHz	30 dB
Reflection Tracking 4 To 6.5 GHz	plus or minus 0.18 dB
Directivity 6.5 To 9 GHz	36 dB
Source Match 6.5 To 9 GHz	30 dB
Reflection Tracking 6.5 To 9 GHz	plus or minus 0.18 dB
Directivity 9 To 14 GHz	36 dB
Source Match 9 To 14 GHz	28 dB
Reflection Tracking 9 To 14 GHz	plus or minus 0.25 dB
Directivity 14 To 18 GHz	36 dB
Source Match 14 To 18 GHz	28 dB
Reflection Tracking 14 To 18 GHz	plus or minus 0.25 dB
Directivity 18 To 26.5 GHz	36 dB
Source Match 18 To 26.5 GHz	27 dB
Reflection Tracking 18 To 26.5 GHz	plus or minus 0.30 dB
Humidity	up to 75 percent RH

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	plus 15 C to plus 35 C
Operating Temperature	plus 15 C to plus 35 C
Humidity	up to 75 percent RH
Operating Humidity	up to 75 percent RH
Typical Maximum Input Power	minus 15 dBm (calibration degrades above this)
Typical Maximum Dc Level	0 V on test port
Typical Damage Level	plus 10 dBm
Supported Analyzers	Keysight ENA, PNA, PXI VNA, Streamline Series USB VNA, FieldFox (CPU2 class for N755xA)
Connector Gender Codes	3FF 3MF 3MM (3.5 mm); NFF NMF NMM (Type-N 50 ohm, models to 18 GHz)
Storage Accessory	plastic storage box code 150
Torque Accessory 3p	N7550X-151 3.5 or 2.92 mm torque wrench
Torque Accessory Type N	N7550X-152 Type-N torque wrench
Literature	Keysight ECal modules technical overview 5963-3743 and N755xA product fact sheet 5992-2547
Directivity Dc To 500 MHz	42 dB (3.5 mm or Type-N tables)
Source Match Dc To 500 MHz	37 dB
Reflection Tracking Dc To 500 MHz	plus or minus 0.13 dB
Frequency Range	DC to 26.5 GHz
Connector Types	3.5 mm only (Type-N not offered at 26.5 GHz)
Directivity 500 MHz To 4 GHz	36 dB
Source Match 500 MHz To 4 GHz	30 dB
Reflection Tracking 500 MHz To 4 GHz	plus or minus 0.13 dB
Directivity 4 To 6.5 GHz	36 dB
Source Match 4 To 6.5 GHz	30 dB
Reflection Tracking 4 To 6.5 GHz	plus or minus 0.18 dB

PARAMETER	VALUE
Directivity 6.5 To 9 GHz	36 dB
Source Match 6.5 To 9 GHz	30 dB
Reflection Tracking 6.5 To 9 GHz	plus or minus 0.18 dB
Directivity 9 To 14 GHz	36 dB
Source Match 9 To 14 GHz	28 dB
Reflection Tracking 9 To 14 GHz	plus or minus 0.25 dB
Directivity 14 To 18 GHz	36 dB
Source Match 14 To 18 GHz	28 dB
Reflection Tracking 14 To 18 GHz	plus or minus 0.25 dB
Directivity 18 To 26.5 GHz	36 dB
Source Match 18 To 26.5 GHz	27 dB
Reflection Tracking 18 To 26.5 GHz	plus or minus 0.30 dB Notes Frequency, connector, size, temperature, input-power, and residual-error rows from Keysight N755xA Series ECal product fact sheet 5992-2547 and Electronic Calibration (ECal) Modules technical overview 5963-3743 model N7555A. Directivity/source-match/tracking tables apply when applied power does not exceed minus 15 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	
Specifications	
PARAMETER	VALUE
Instrument Type	Two port economy electronic calibration module
Series Family	Keysight N755xA economy ECal
Port Count	2
System Impedance	50 ohm
Control Interface	USB from Keysight VNA firmware (no external PC required)
Warm Up	none required; start calibration immediately
Module Size HxWxD	77 mm x 29 mm x 27 mm
Operating Temperature	plus 15 C to plus 35 C
Operating Humidity	up to 75 percent RH
Typical Maximum Input Power	minus 15 dBm (calibration degrades above this)
Typical Maximum Dc Level	0 V on test port
Typical Damage Level	plus 10 dBm
Supported Analyzers	Keysight ENA, PNA, PXI VNA, Streamline Series USB VNA, FieldFox (CPU2 class for N755xA)
Connector Gender Codes	3FF 3MF 3MM (3.5 mm); NFF NMF NMM (Type-N 50 ohm, models to 18 GHz)
Storage Accessory	plastic storage box code 150
Torque Accessory 3p5	N7550X-151 3.5 or 2.92 mm torque wrench
Torque Accessory Type N	N7550X-152 Type-N torque wrench
Literature	Keysight ECal modules technical overview 5963-3743 and N755xA product fact sheet 5992-2547
Directivity Dc To 500 MHz	42 dB (3.5 mm or Type-N tables)
Source Match Dc To 500 MHz	37 dB
Reflection Tracking Dc To 500 MHz	plus or minus 0.13 dB
Frequency Range	DC to 26.5 GHz
Connector Types	3.5 mm only (Type-N not offered at 26.5 GHz)
Directivity 500 MHz To 4 GHz	36 dB
Source Match 500 MHz To 4 GHz	30 dB

PARAMETER	VALUE
Reflection Tracking 500 MHz To 4 GHz	plus or minus 0.13 dB
Directivity 4 To 6.5 GHz	36 dB
Source Match 4 To 6.5 GHz	30 dB
Reflection Tracking 4 To 6.5 GHz	plus or minus 0.18 dB
Directivity 6.5 To 9 GHz	36 dB
Source Match 6.5 To 9 GHz	30 dB
Reflection Tracking 6.5 To 9 GHz	plus or minus 0.18 dB
Directivity 9 To 14 GHz	36 dB
Source Match 9 To 14 GHz	28 dB
Reflection Tracking 9 To 14 GHz	plus or minus 0.25 dB
Directivity 14 To 18 GHz	36 dB
Source Match 14 To 18 GHz	28 dB
Reflection Tracking 14 To 18 GHz	plus or minus 0.25 dB
Directivity 18 To 26.5 GHz	36 dB
Source Match 18 To 26.5 GHz	27 dB
Reflection Tracking 18 To 26.5 GHz	plus or minus 0.30 dB

Notes

Frequency, connector, size, temperature, input-power, and residual-error rows from Keysight N755xA Series ECal product fact sheet 5992-2547 and Electronic Calibration (ECal) Modules technical overview 5963-3743 model N7555A. Directivity/source-match/tracking tables apply when applied power does not exceed minus 15 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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 15, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.