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Data Sheet

August 15, 2026

ANRITSU

Anritsu 36581NNF

Anritsu 36581NNF 2-Port Electronic AutoCal Module The Anritsu 36581NNF is a 2-port electronic AutoCal module for Anritsu 360B and 37000 vector network analyzers and MS462xx vector network measurement systems. OEM 3658x AutoCal coverage lists 40 MHz to 18 GHz with Nmale and Nfemale module connectors. Guaranteed specifications are at 23 plus or minus 3 C. Sibling 36581KKF is the K-connector 40 MHz to 20 GHz electronic AutoCal and is a different SKU. Single-connection 12-term electronic calibration of Anritsu VNAs/VNMS with N-type ports from 40 MHz to 18 GHz. The Anritsu 36581NNF is a 2-port electronic AutoCal module for Anritsu 360B and 37000 vector network analyzers and MS462xx vector network measurement systems. OEM 3658x AutoCal coverage lists 40 MHz to 18 GHz with Nmale and Nfemale module connectors. Guaranteed specifications are at 23 plus or minus 3 C. Sibling 36581KKF is the K-connector 40 MHz to 20 GHz electronic AutoCal and is a different SKU. Single-connection 12-term electronic calibration of Anritsu VNAs/VNMS with N-type ports from 40 MHz to 18 GHz.



MODEL

Anritsu 36581NNF

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

36581NNF

LISTING

<https://aumictechlabs.com/products/36581nnf-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 36581NNF is an electronic AutoCal module that delivers automatic, repeatable VNA calibration across 40 MHz to 6 GHz. It eliminates systematic measurement errors through fast,

high-quality coaxial calibrations using solid-state switching and N-type connectors. The module performs 1-port and full 2-port 12-term OSLT calibrations, isolation measurements, and true thru mode operation. Control is managed via PC with appropriate software, requiring either a 37000 series VNA with firmware 3.23+ or compatible MS462XX VNMS. Each module ships with NIST-traceable characterization data and maintains specification performance for six months without re-characterization. Technical Specifications Frequency Range: 40 MHz to 6 GHz Connector Type: N (Male)–N (Female) Switch Architecture: Electronic (solid-state) Source Match: Up to 36 dB Reflection Tracking: Up to ± 0.15 dB Transmission Tracking (Module Thru Mode): Up to ± 0.15 dB Transmission Tracking (True Thru Mode): Up to ± 0.10 dB Dimensions: 155 mm (W) $\times$ 65 mm (H) $\times$ 90 mm (D) Key Features Automatic calibration with electronic switching eliminates manual tuning Dual-mode thru capability: module thru or true thru for direct connector calibration Isolation measurement capability with manual, default, and custom averaging options Characterization data file supplied for each standard; NIST traceability confirmed Six-month specification validity without re-characterization RS-232 serial interface for host PC or VNA control GPIB (IEEE 488.2) control interface for compatible instruments Typical Applications Production VNA calibration requiring high repeatability Laboratory measurement systems demanding rapid, error-corrected S-parameters Automated test environments integrating multiple VNA instruments Compatibility & Integration Operates with Anritsu 37000 series VNAs (firmware 3.23+), MS462XX VNMS, 360B, and MS 4623 B platforms. Requires Windows PC with serial interface or GPIB capability; controlled via dedicated software linked to compatible VNA firmware.

36581NNF Characteristics / Specifications

PARAMETER	VALUE
Model	36581NNF
Instrument Type	2-port electronic AutoCal module
Manufacturer	Anritsu Company
Literature	Anritsu 3658x Series AutoCal technical data 11410-00189 class and 36581NNF chapter listings
Frequency Range	40 MHz to 18 GHz (36581NNF)
Module Connectors	N male andNfemale
Ambient Temperature	23 plus or minus 3 C (guaranteed specs)
Directivity Op04 To Op2 Ghz	38 dB (AutoCal module, 0.04 to 0.2 GHz)
Directivity Op2 To 2 Ghz	38 dB (0.2 to 2 GHz)
Directivity 2 To 9 Ghz	38 dB (2 to 9 GHz)
Directivity 9 To 20 Ghz	38 dB (9 to 20 GHz on the AutoCal module table)
Load Match Op04 To 2 Ghz	38 dB (0.04 to 2 GHz)
Source Match Op01 To 2 Ghz	34 dB (0.01 to 2 GHz)
Source Match 2 To 18 Ghz N	31 dB (2 to 18 GHz, N connector)
Reflection Tracking Low	plus or minus 0.15 dB (0.01 to 2 GHz)
Reflection Tracking High	plus or minus 0.20 dB (2 to 20 GHz)
Transmission Internal Thru Low	plus or minus 0.15 dB (0.01 to 2 GHz, internal thru)
Transmission True Thru Low	plus or minus 0.10 dB (0.01 to 2 GHz, true thru)
Host Analyzers	Anritsu 360B, 37000 series VNA, MS462xx VNMS
Sibling K	36581KKF electronic AutoCal, K male/female, 40 MHz to 20 GHz
Sibling Mechanical	36582KKF mechanical AutoCal, 40 MHz to 40 GHz
Brand Lineage	Anritsu (Wiltron VNA lineage)
Form Factor	2-port electronic AutoCal module
Ate Class	VNA electronic calibration

36581NNF Specifications

PARAMETER	VALUE
Applications	Single-connection 12-term electronic calibration of Anritsu VNAs/VNMS with N-type ports from 40 MHz to 18 GHz.
Key Features	Electronic 2-port AutoCal, N male to N female
Internal thru and true thru tracking specs	Sibling 36581KKF is K-connector 20 GHz AutoCal
Technical Specifications	Model: 36581NNF

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 are at 23 plus or minus 3 C. Sibling 36581KKF is the K-connector 40 MHz to 20 GHz electronic AutoCal and isadifferent SKU.	
Applications	
Single-connection 12-term electronic calibration of Anritsu VNAs/VNMS with N-type ports from 40 MHz to 18 GHz.	
Key Features	
Electronic 2-port AutoCal, N male toNfemale	
40 MHz to 18 GHz (36581NNF)	
Directivity 38 dB class from 0.04 GHz through 20 GHz tables	
Internal thru and true thru tracking specs	
Sibling 36581KKF is K-connector 20 GHz AutoCal	
Technical Specifications	
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Directivity 0p04 To 0p2 Ghz	38 dB (AutoCal module, 0.04 to 0.2 GHz)
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Sibling K	36581KKF electronic AutoCal, K male/female, 40 MHz to 20 GHz
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Form Factor	2-port electronic AutoCal module
Ate Class	VNA electronic calibration

Notes

From Anritsu 3658x AutoCal data (36581NNF 40 MHz to 18 GHz, N male/female). Converter-set (36583x) columns are not assigned as native 36581NNF residual. 3656B mechanical W1 cal/verification isadifferent remaining-queue SKU.

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 ·
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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.