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Data Sheet

August 13, 2026

ANRITSU

Anritsu 60N50 VSWR Bridge, 5 MHz to 2 GHz

Anritsu 60N50 Precision SWR Bridge Type N 5 MHz to 2 GHz The Anritsu (Wiltron) 60N50 is a precision high-directivity SWR / return-loss bridge with Type-N connectors covering 5 MHz to 2 GHz at 50 ohm. It is used with scalar network analyzers and detectors to measure fixed and swept return loss of amplifiers, couplers, attenuators, filters, and terminations. Related 60NF50 provides a female test port; 60N50 is the male Type-N test-port configuration. The Anritsu (Wiltron) 60N50 is a precision high-directivity SWR / return-loss bridge with Type-N connectors covering 5 MHz to 2 GHz at 50 ohm. It is used with scalar network analyzers and detectors to measure fixed and swept return loss of amplifiers, couplers, attenuators, filters, and terminations. Related 60NF50 provides a female test port; 60N50 is the male Type-N test-port configuration.



MODEL

Anritsu 60N50

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

60N50

LISTING

<https://aumictechlabs.com/products/60n50-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 60N50 VSWR Bridge is a precision measurement instrument for SWR and return loss characterization across the 5 MHz to 2 GHz band. This 50 Ohm bridge couples with external test equipment to deliver swept-frequency return loss and SWR measurements essential for component and system validation. It quantifies impedance mismatches and signal reflections in amplifiers, directional couplers, attenuators, filters, splitters, terminations, cables, and antennas used in RF and microwave communication systems. Technical Specifications Frequency Range: 5

MHz to 2 GHz Impedance: 50 Ohms Directivity: 40 dB Insertion Loss: 6.5 dB nominal Maximum Input Power: 0.5 W Dynamic Range: 40 dB Test Port Connector: N(m) Measurement Capability: Forward and reflected power, SWRKey Features 40 dB directivity ensures accurate signal separation and measurement fidelity 40 dB dynamic range accommodates varied impedance conditions and component responses Compact, field-deployable design bridges laboratory and production environments N-type male connector provides standard RF interface compatibilityTypical Applications Return loss and SWR measurements across passive and active RF components Impedance mismatch detection and assessment in transmission lines and antennas System calibration and impedance matching verification Performance validation of RF subsystems and microwave assemblies Cable and antenna characterization in communication networks Signal integrity analysis in broadband and narrowband RF systemsCompatibility & Integration The 60N50 integrates with network analyzers, impedance meters, and swept-measurement systems to enable comprehensive RF characterization. Standard N-type male connectors ensure compatibility with industry-standard test fixtures and transmission line assemblies across the 5 MHz–2 GHz operating window.

Features & description

From manufacturer datasheet

Features

- Precision high-directivity SWR bridge architecture
- Frequency coverage 5 MHz to 2.0 GHz
- 40 dB directivity specification
- 50 ohm characteristic impedance
- Type-N test-port family (60N50 male / 60NF50 female)
- 0.5 W maximum input power rating
- Nominal 6.5 dB insertion loss through bridge path

Applications

- Swept and CW return loss / SWR measurements 5 MHz to 2 GHz
- Scalar network analyzer bridge path for component QA
- Checking amplifiers couplers attenuators filters and loads
- Field and bench RF reflection measurements with N connectors

60N50 Characteristics / Specifications

PARAMETER	VALUE
Model	60N50
Manufacturer	Anritsu / Wiltron
Instrument Type	Precision SWR Bridge
Alias	60N50; Wiltron 60N50; 60NF50 female variant
Frequency range minimum	5 MHz
Frequency range maximum	2.0 GHz
Characteristic impedance	50 ohm
Directivity	40 dB
Insertion loss nominal	6.5 dB
Maximum input power	0.5 W
Test port connector 60N	TypeNmale
Related female model	60NF50 TypeNfemale
Measurement quantity	return loss and SWR
Bridge application	fixed and swept frequency reflection
Shipping weight typical	about 2 lb
Compatible detectors	Anritsu 560 / 5400 series detectors
Compatible analyzers	Anritsu scalar network analyzers
DUT examples	amplifiers couplers attenuators filters loads
RF connector family	Type N 50 ohm
Form factor	coaxial bridge module
Related precision terminations series	28N50 family
Power limit note	do not exceed 0.5 W into bridge
Frequency coverage band	HF throughLband RF
Directivity benefit	high directivity improves return loss uncertainty
System role	precision reflection measurement component

PARAMETER	VALUE
Gender twin	use 60NF50 when female test port required Notes Specs from Anritsu/Wiltron 60N50/60NF50 SWR bridge reseller and catalog data. This model is an SWR bridge (notacoaxial termination). Confirm male vs female (60NF50) faceplate marking.
Return loss	of amplifiers, couplers, attenuators, filters, and terminations. Related 60NF50 providesafemale test port; 60N50 is the male Type-N test-port configuration.

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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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.