Aumictech
Test & measurement · bought, sold, repaired, calibrated

Data Sheet
August 13, 2026

ANRITSU

Anritsu 69175A Synthesized Sweep Generator, 0.5 to 50 GHz

Anritsu 69175A Synthesized Sweep Generator 0.5 to 50 GHz The Anritsu/Wiltron 69175A is a 69A Series synthesized sweep generator covering 0.5 GHz to 50 GHz. It provides broadband analog and phase-locked step sweeps for RF through mmWave network analysis as the sweep member of the 69×75A family. The Anritsu/Wiltron 69175A is a 69A Series synthesized sweep generator covering 0.5 GHz to 50 GHz. It provides broadband analog and phase-locked step sweeps for RF through mmWave network analysis as the sweep member of the 69×75A family.

MODEL **Anritsu 69175A**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **69175A**	LISTING **https://aumictechlabs.com/products/69175a-2/**

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 69175A is a synthesized sweep generator delivering phase-locked RF and microwave signal generation across 0.5 to 50 GHz. Built for precision frequency control in laboratory, design validation, and production environments, it combines 1 kHz frequency resolution with flexible sweep modes - manual, analog, step, and alternate - enabling rapid characterization of components and systems across the full microwave band.Technical Specifications Frequency Range: 0.5 to 50 GHz Frequency Resolution: 1 kHz standard; 0.1 Hz with Option 11 Frequency Accuracy: Dependent on 10 MHz time base. Aging: < 2×10^{-8}/day (< 5×10^{-10}/day with Option 16). Temperature stability: < 2×10^{-8}/°C over 0 to 55 °C (< 2×10^{-10}/°C with Option 16). Output

Impedance: 50 Ω Power Flatness: Up to 1.6 dB (0.5–40 GHz) and 2.2 dB (40–50 GHz) for analog sweep; maximum variation 2.0 dB (0.5–20 GHz), 4.0 dB (20–40 GHz), and 5.0 dB (40–50 GHz). Reference I/O: 10 MHz reference output (0.5 Vp-p into 50 Ω, AC coupled) and external 10 MHz reference input.Key Features Sweep Modes: Manual (< 8.5 ms/step switching), analog (1 MHz to full-range sweep, < 1 second sweep time), step sweep (1 to 10,000 steps, 1 kHz to full range step size, 1 ms to 99 seconds dwell), and alternate sweep between two ranges. Step Sweep Performance: Switching time typically < 15 ms + 1 ms/GHz or < 40 ms, whichever is less. Phase-Locked Operation: Enables precise frequency synthesis with sub-millisecond switching stability. Modulation: Internal AM, FM, and phase modulation capabilities. VNA Integration: Compatible with Wiltron 360B vector network analyzers; achieves < 8.5 ms/step phase-locked sweep speed under VNA control.Typical Applications Component characterization and S-parameter measurement RF/microwave system validation and design verification Production testing of amplifiers, filters, and integrated circuits EMC and RF immunity testingCompatibility & Integration Front-panel and remote IEEE control interfaces enable standalone operation or integration into automated test systems. External 10 MHz reference input supports synchronization with external frequency standards.

Features & description

From manufacturer datasheet

Features

• Synthesized sweep coverage 0.5 to 50 GHz • Analog and phase locked step sweep • Alternate and manual sweep modes • Ultra low noise 69100A family • Optional step attenuator Option 2C class • Internal leveling at RF output • Marker functions in analog sweep • GPIB remote control

Applications

• Swept frequency stimulus 0.5 to 50 GHz • mmWave network analysis source • Component frequency response to 50 GHz • ATE rack sweeper with GPIB • Phase locked step sweeps

69175A Characteristics / Specifications

PARAMETER	VALUE
Model	69175A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Sweep Generator
Alias	69175A; Anritsu 69175A; Wiltron 69175A
Frequency range	0.5 GHz to 50 GHz
Family	69A Series ultra low noise
Output power resolution	0.01 dB
Source impedance	50 ohm nominal
Source SWR internal leveling below 2 GHz	less than 1.7 typical
Source SWR 2 to 20 GHz	less than 1.6 typical
Source SWR above 20 GHz	less than 2.0 typical
Power level stability vs temperature	0.04 dB/degCtypical
Internal leveling	yes at output connector
RF on off	yes
Level offset	yes
CW frequency resolution standard	1 kHz class
CW frequency resolution Option	0.1 Hz
CW accuracy	same as internal or external 10 MHz time base
Internal time base aging	less than 2 × 10^-8/day class
Internal time base aging Option	less than 5 × 10^-10/day class
Residual FM 0.5 to 1.0 GHz class	less than 10 Hz RMS
Residual FM 1.0 to 2.2 GHz class	less than 20 Hz RMS
Residual FM 2.2 to 20 GHz class	less than 40 Hz RMS
Step attenuator option to 26.5 GHz	Option 2A 110 dB
Step attenuator option to 40 GHz	Option 2B 110 dB

PARAMETER	VALUE
Step attenuator option to 50 GHz	Option 2C 90 dB
Step attenuator option to 60 GHz	Option 2D 90 dB
Rack mount option	Option 1
Remote control	GPIB
Dimensions	429 mmWx 133 mmHx 597 mmDMass: less than or equal to 23 kg
Leveled output power 0.5 to 2.2 GHz class	+12 dBm
Leveled output power greater than 2.2 to 20 GHz class	+10 dBm
Leveled output power greater than 20 to 40 GHz class	+2.5 dBm
Leveled output power greater than 40 to 50 GHz class	+2.5 dBm
Leveled output with step attenuator 0.5 to 2.2 GHz class	+10 dBm
Leveled output with step attenuator greater than 2.2 to 20 GHz class	+8.5 dBm
Leveled output with step attenuator greater than 20 to 40 GHz class	0 dBm
Leveled output with step attenuator greater than 40 to 50 GHz class	-1 dBm
Analog sweep width	1 MHz to full range
Analog sweep time	30 ms to 99 s
Step sweep	every frequency step phase locked
Output mode	CW and sweep
RF output connector	TypeVfemale
Related CW model	69075A
Related signal model	69275A
Related sweep signal model	69375A
Primary use	ultra low noise synthesized sweep 0.5 to 50 GHz Notes Specs from Anritsu/Wiltron 69A Series datasheet for 69×75A / 69175A (0.5–50 GHz Sweep). Confirm connector and high-band leveled power on label.

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

Technical Specifications

PARAMETER	VALUE
Model	69175A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Sweep Generator
Alias	69175A; Anritsu 69175A; Wiltron 69175A
Frequency range	0.5 GHz to 50 GHz
Family	69A Series ultra low noise
Output power resolution	0.01 dB
Source impedance	50 ohm nominal
Source SWR internal leveling below 2 GHz	less than 1.7 typical
Source SWR 2 to 20 GHz	less than 1.6 typical
Source SWR above 20 GHz	less than 2.0 typical
Power level stability vs temperature	0.04 dB/deg C typical
Internal leveling	yes at output connector
RF on off	yes
Level offset	yes
CW frequency resolution standard	1 kHz class
CW frequency resolution Option 11	0.1 Hz
CW accuracy	same as internal or external 10 MHz time base
Internal time base aging	less than 2 x 10^-8/day class
Internal time base aging Option 16	less than 5 x 10^-10/day class
Residual FM 0.5 to 1.0 GHz class	less than 10 Hz RMS
Residual FM 1.0 to 2.2 GHz class	less than 20 Hz RMS
Residual FM 2.2 to 20 GHz class	less than 40 Hz RMS
Step attenuator option to 26.5 GHz	Option 2A 110 dB
Step attenuator option to 40 GHz	Option 2B 110 dB
Step attenuator option to 50 GHz	Option 2C 90 dB

PARAMETER	VALUE
Step attenuator option to 60 GHz	Option 2D 90 dB
Rack mount option	Option 1
Remote control	GPIB
Dimensions	429 mm W x 133 mm H x 597 mm D
Mass	less than or equal to 23 kg

Specifications

PARAMETER	VALUE
Model	69175A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Sweep Generator
Alias	69175A; Anritsu 69175A; Wiltron 69175A
Frequency range	0.5 GHz to 50 GHz
Family	69A Series ultra low noise
Output power resolution	0.01 dB
Source impedance	50 ohm nominal
Source SWR internal leveling below 2 GHz	less than 1.7 typical
Source SWR 2 to 20 GHz	less than 1.6 typical
Source SWR above 20 GHz	less than 2.0 typical
Power level stability vs temperature	0.04 dB/degCtypical
Internal leveling	yes at output connector
RF on off	yes
Level offset	yes
CW frequency resolution standard	1 kHz class
CW frequency resolution Option 11	0.1 Hz
CW accuracy	same as internal or external 10 MHz time base
Internal time base aging	less than 2 x 10^-8/day class
Internal time base aging Option 16	less than 5 x 10^-10/day class
Residual FM 0.5 to 1.0 GHz class	less than 10 Hz RMS
Residual FM 1.0 to 2.2 GHz class	less than 20 Hz RMS
Residual FM 2.2 to 20 GHz class	less than 40 Hz RMS
Step attenuator option to 26.5 GHz	Option 2A 110 dB
Step attenuator option to 40 GHz	Option 2B 110 dB

PARAMETER	VALUE
Step attenuator option to 50 GHz	Option 2C 90 dB
Step attenuator option to 60 GHz	Option 2D 90 dB
Rack mount option	Option 1
Remote control	GPIB
Dimensions	429 mmWx 133 mmHx 597 mmDMass: less than or equal to 23 kg

Leveled output power 0.5 to 2.2 GHz class: +12 dBm
Leveled output power greater than 2.2 to 20 GHz class: +10 dBm
Leveled output power greater than 20 to 40 GHz class: +2.5 dBm
Leveled output power greater than 40 to 50 GHz class: +2.5 dBm
Leveled output with step attenuator 0.5 to 2.2 GHz class: +10 dBm
Leveled output with step attenuator greater than 2.2 to 20 GHz class: +8.5 dBm
Leveled output with step attenuator greater than 20 to 40 GHz class: 0 dBm
Leveled output with step attenuator greater than 40 to 50 GHz class: -1 dBm

Specifications

PARAMETER	VALUE
Analog sweep width	1 MHz to full range
Analog sweep time	30 ms to 99 s
Step sweep	every frequency step phase locked
Output mode	CW and sweep
RF output connector	TypeVfemale
Related CW model	69075A
Related signal model	69275A
Related sweep signal model	69375A
Primary use	ultra low noise synthesized sweep 0.5 to 50 GHz

Notes
Specs from Anritsu/Wiltron 69A Series datasheet for 69x75A / 69175A (0.5–50 GHz Sweep). Confirm connector and high-band leveled power on label.

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 13, 2026