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Data Sheet

August 13, 2026

ANRITSU

Anritsu 69345A Synthesized Sweep/Signal Generator, 0.5 – 20 GHz

Anritsu 69345A Synthesized Sweep/Signal Generator 0.5–20 GHz The Anritsu/Wiltron 69345A is an ultra-low-noise synthesized sweep/signal generator covering 0.5 GHz to 20 GHz in the 69A Series. It combines CW, analog sweep, phase-locked step sweep, and comprehensive AM/FM/ΦM/pulse modulation for microwave stimulus and signal-simulation applications. Related family members include 69045A (CW), 69145A (sweep), and 69245A (signal generator). The Anritsu/Wiltron 69345A is an ultra-low-noise synthesized sweep/signal generator covering 0.5 GHz to 20 GHz in the 69A Series. It combines CW, analog sweep, phase-locked step sweep, and comprehensive AM/FM/ΦM/pulse modulation for microwave stimulus and signal-simulation applications. Related family members include 69045A (CW), 69145A (sweep), and 69245A (signal generator).



MODEL

Anritsu 69345A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

69345A

LISTING

<https://aumictechlabs.com/products/69345a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 69345A is a synthesized sweep/signal generator delivering precise frequency control from 0.5 GHz to 20 GHz. Built for RF receiver testing, production verification, and demanding R&D environments, it combines phase-locked synthesis with flexible sweep architecture to

characterize device performance across broad frequency bands.

Technical Specifications

Frequency Performance Frequency Range: 0.5 GHz to 20 GHz Frequency Resolution: 1 kHz (0.1 Hz with Option 11) Carrier Frequency Stability: $< 2 \times 10^{-8}/\text{day}$; $< 5 \times 10^{-10}/\text{day}$ with Option 16 Temperature Stability: $< 2 \times 10^{-8}/^{\circ}\text{C}$ over 0°C to 55°C ; $< 2 \times 10^{-10}/^{\circ}\text{C}$ with Option 16 Frequency Switching Time: < 40 ms to 1 kHz accuracy; stepped sweeps < 15 ms + 1 ms/GHz step or < 40 ms (whichever is less) Output Characteristics Output Impedance: 50Ω 10 MHz Reference Output: 0.5 V p-p into 50Ω , AC coupled, rear panel BNC Modulation & Sweep Modes Modulation Types: Internal AM, FM, phase modulation, pulse modulation, and user-downloadable complex modulation Sweep Modes: Manual (stepped), analog, step, and alternate (two ranges with independent power levels) Sweep Width: 1 MHz to full range or continuous Dwell Time: 1 ms to 99 seconds per step Sweep Triggering: Auto, external TTL (AUX I/O connector), or single Reference & Synchronization External 10 MHz Reference Input: Supported VNA Source Lock Mode: Phase-locked operation with Wiltron 360B at < 8.5 ms/step sweep speed; 100 kHz frequency resolution

Key Features

- Stable synthesis across 0.5–20 GHz with sub-nanosecond switching
- Flexible sweep control with user-selectable width and dwell time
- Multiple triggering options for integration into test systems
- Optional ultra-low frequency stability for precision metrology VNA synchronization for network analyzer sourcing

Typical Applications

- RF receiver characterization and design validation
- Production line signal source verification
- Component performance measurement across microwave bands
- Frequency response testing in manufacturing environments

Compatibility & Integration

External reference locking and TTL trigger inputs enable integration with automated test systems and vector network analyzers. Phase-locked operation with Wiltron 360B VNA systems supports synchronized multi-port measurements.

Features & description

From manufacturer datasheet

Features

- Ultra-low-noise 69300A-class sweep/signal generator architecture

Applications

- Microwave component and receiver characterization to 20 GHz

69345A Characteristics / Specifications

PARAMETER	VALUE
Anritsu 69345A Synthesized Sweep/Signal Generator 0.	20 GHz Overview The Anritsu/Wiltron 69345A is an ultra-low-noise synthesized sweep/signal generator covering 0.5 GHz to 20 GHz in the 69A Series. It combines CW, analog sweep, phase-locked step sweep, and comprehensive AM/FM/ΦM/pulse modulation for microwave stimulus and signal-simulation applications. Related family members include 69045A (CW), 69145A (sweep), and 69245A (signal generator).
Model	69345A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Ultra Low Noise Synthesized Sweep/Signal Generator
Alias	69345A; Anritsu 69345A; Wiltron 69345A
Frequency range	0.5 GHz to 20 GHz
Family	69A Series ultra low noise
Leveled output power 0.5 to 20 GHz	+13 dBm
Leveled output power with step attenuator	+11 dBm
Minimum leveled power without attenuator	to -15 dBm class
Minimum leveled power with attenuator	to -115 dBm class
Output power resolution	0.01 dB
Source impedance	50 Ω nominal
Source SWR internal leveling below 2 GHz	less than 1.7 typical
Source SWR 2 to 20 GHz	less than 1.6 typical
Power level stability vs temperature	0.04 dB/°C typical
CW frequency resolution standard	1 kHz
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

PARAMETER	VALUE
Internal time base aging Option	less than 5×10^{-10} /day
Internal time base vs temperature	less than 2×10^{-8} /°C over 0 to 55 C
External 10 MHz reference input	± 100 Hz, -10 to +20 dBm class
Analog sweep width	1 MHz to full range
Analog sweep time	30 ms to 99 s
Step sweep resolution minimum	1 kHz (0.1 Hz with Option 11)
Step sweep dwell	1 ms to 99 s per step class
Harmonics 0.5 to 2.2 GHz 69xx5A	less than -50 dBc
Harmonics greater than 2.2 to 20 GHz	less than -60 dBc
Nonharmonic spurious greater than 2 GHz	less than -60 dBc 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
Internal leveling	yes at output connector
AM bandwidth 3 dB typical	DC to 50 kHz minimum
Pulse PRF leveled	100 Hz to 5 MHz
Pulse PRF unleveled	DC to 10 MHz
Remote control	GPIB
Related CW model	69045A
Related sweep model	69145A
Related signal model	69245A
RF connector class	precision microwave output Notes Specs from Anritsu/Wiltron 69A Series datasheet tables for 69×45A / 69345A (0.5–20 GHz). Confirm installed options (2A attenuator, 11 resolution, 15B high power, 16 time base), exact max leveled power on the calibration label, and connector type on the unit.
Bandwidth	3 dB typical: DC to 50 kHz minimum

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
Model	69345A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Ultra Low Noise Synthesized Sweep/Signal Generator
Specifications	
PARAMETER	VALUE
Alias	69345A; Anritsu 69345A; Wiltron 69345A
Frequency range	0.5 GHz to 20 GHz
Family	69A Series ultra low noise
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Leveled output power 0.5 to 20 GHz	+13 dBm
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Minimum leveled power without attenuator	to -15 dBm class
Specifications	
PARAMETER	VALUE
Minimum leveled power with attenuator	to -115 dBm class
Output power resolution	0.01 dB
Source impedance	50 Ω nominal
Specifications	
PARAMETER	VALUE
Source SWR internal leveling below 2 GHz	less than 1.7 typical
Source SWR 2 to 20 GHz	less than 1.6 typical
Power level stability vs temperature	0.04 dB/°C typical

Specifications

PARAMETER	VALUE
CW frequency resolution standard	1 kHz
CW frequency resolution Option 11	0.1 Hz
CW accuracy	same as internal or external 10 MHz time base

Specifications

PARAMETER	VALUE
Internal time base aging	less than 2×10^{-8} /day
Internal time base aging Option 16	less than 5×10^{-10} /day
Internal time base vs temperature	less than 2×10^{-8} /°C over 0 to 55 C

Specifications

PARAMETER	VALUE
External 10 MHz reference input	± 100 Hz, -10 to +20 dBm class
Analog sweep width	1 MHz to full range
Analog sweep time	30 ms to 99 s

Specifications

PARAMETER	VALUE
Step sweep resolution minimum	1 kHz (0.1 Hz with Option 11)
Step sweep dwell	1 ms to 99 s per step class
Harmonics 0.5 to 2.2 GHz 69xx5A	less than -50 dBc

Specifications

PARAMETER	VALUE
Harmonics greater than 2.2 to 20 GHz	less than -60 dBc
Nonharmonic spurious greater than 2 GHz	less than -60 dBc class
Residual FM 0.5 to 1.0 GHz class	less than 10 Hz RMS

Specifications

PARAMETER	VALUE
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
Internal leveling	yes at output connector

Specifications

PARAMETER	VALUE
AM bandwidth 3 dB typical	DC to 50 kHz minimum
Pulse PRF leveled	100 Hz to 5 MHz
Pulse PRF unleveled	DC to 10 MHz

Specifications

PARAMETER	VALUE
Remote control	GPIB
Related CW model	69045A
Related sweep model	69145A

Related signal model: 69245A

RF connector class: precision microwave output

Notes

Specs from Anritsu/Wiltron 69A Series datasheet tables for 69x45A / 69345A (0.5–20 GHz). Confirm installed options (2A attenuator, 11 resolution, 15B high power, 16 time base), exact max leveled power on the calibration label, and connector type on the unit.

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.