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Data Sheet

August 13, 2026

ANRITSU

Anritsu 69365A Synthesized Sweep/Signal Generator, 0.5 to 40 GHz

Anritsu 69365A Synthesized Sweep/Signal Generator 0.5 to 40 GHz The Anritsu/Wiltron 69365A is the highest-capability 69A Series universal synthesizer covering 0.5 GHz to 40 GHz. It combines CW, analog/step/manual sweep, and full AM/FM/phase/pulse modulation in one package for microwave and mm-wave stimulus. Related 69×65A family members share the same band with reduced modulation or sweep feature sets. The Anritsu/Wiltron 69365A is the highest-capability 69A Series universal synthesizer covering 0.5 GHz to 40 GHz. It combines CW, analog/step/manual sweep, and full AM/FM/phase/pulse modulation in one package for microwave and mm-wave stimulus. Related 69×65A family members share the same band with reduced modulation or sweep feature sets.



MODEL

Anritsu 69365A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

69365A

LISTING

<https://aumictechlabs.com/products/69365a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 69365A is a synthesized sweep/signal generator delivering cost-effective, high-quality signal generation across 0.5 GHz to 40 GHz. Built for calibration and general laboratory testing, it combines multiple sweep modes with precise frequency control and flexible modulation capabilities. Technical Specifications Frequency Range: 0.5 GHz to 40 GHz Frequency Resolution:

1 kHz standard; 0.1 Hz with Option 11 Spurious Signals: Harmonic and harmonic-related spurious < -50 dBc (500 MHz to 2.2 GHz) Time Base Stability: Internal: < 2×10^{-8} /day aging; < 2×10^{-8} /°C (0°C to 55°C) Option 16: < 5×10^{-10} /day Reference I/O: 10 MHz reference output: 0.5 V p-p into 50 Ω , AC coupled External 10 MHz reference input supported Control Interface: GPIBKey Features Sweep Modes: CW Mode: Twenty independent, presettable frequencies Step Sweep: Phase-locked frequency stepping with user-selectable step count or size; < 15 ms + 1 ms/GHz step or < 40 ms switching; dwell 1 ms to 99 seconds Analog Sweep: 1 MHz to full-range continuous sweep Alternate Sweep: Dual-range operation with independent power level assignment Modulation: Internal AM, FM, phase, and pulse modulation; 7 modulating waveforms; user-downloadable complex modulationTypical Applications Device calibration, RF component characterization, system testing across microwave and millimeter-wave bands, and frequency-agile measurement scenarios.Compatibility & Integration GPIB remote control enables integration into automated test systems. External 10 MHz reference input allows phase-locked operation with master frequency standards.

Features & description

From manufacturer datasheet

Features

- Full sweep/signal capability in 69300A class

Applications

- Swept microwave and mm-wave component characterization to 40 GHz

69365A Characteristics / Specifications

PARAMETER	VALUE
Model	69365A
Manufacturer	Anritsu (Wilton 69A Series)
Instrument Type	Synthesized Sweep/Signal Generator
Alias	69365A; Anritsu 69365A; Wiltron 69365A
Frequency range	0.5 GHz to 40 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 accuracy	same as internal or external 10 MHz time base
Internal time base aging	less than 2×10^{-8} /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
Step attenuator option to 60 GHz	Option 2D 90 dB

PARAMETER	VALUE
Rack mount option	Option 1
Remote control	GPIB
Leveled output power 0.5 to 2.2 GHz class	+13 dBm
Leveled output power greater than 2.2 to 20 GHz class	+13 dBm
Leveled output power greater than 20 to 40 GHz class	+6 dBm
Leveled output with step attenuator 0.5 to 2.2 GHz class	+11 dBm
Leveled output with step attenuator greater than 2.2 to 20 GHz class	+11 dBm
Leveled output with step attenuator greater than 20 to 40 GHz class	+3 dBm
Analog sweep width	1 MHz to full range
Analog sweep time	30 ms to 99 s
Analog sweep accuracy class	lesser of ± 30 MHz or $(\pm 2 \text{ MHz} + 0.25\% \text{ of sweep width})$ at ≤ 50 MHz/ms
Step sweep	every frequency step phase locked
Output mode	CW, sweep, and modulated signal
Related CW model	69065A
Related sweep model	69165A
Related signal model	69265A
Primary use	universal sweep/signal microwave synthesis to 40 GHz Notes Specs from Anritsu/Wiltron 69A Series datasheet tables for 69×65A / 69365A (0.5–40 GHz Sweep/Signal). Series: 69000A CW, 69100A Sweep, 69200A Signal, 69300A Sweep/Signal. Confirm options, max leveled power on calibration label, and connector type.

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.

performance AM/FM/phase/pulse signal simulation

- Network analysis stimulus and ATE source

- Radar and EW modulated signal generation

- Phase locked step and analog frequency sweeps

Key Features

- Full sweep/signal capability in 69300A class

- Coverage 0.5 to 40 GHz

- Analog, step, alternate, and manual sweeps

- Internal and external AM/FM/pulse modulation

- Optional phase modulation Option 6

- Ultra low noise 69A synthesizer architecture

- Optional step attenuator Option 2B class

- GPIB remote control

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	69365A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Sweep/Signal Generator

Specifications

PARAMETER	VALUE
Alias	69365A; Anritsu 69365A; Wiltron 69365A
Frequency range	0.5 GHz to 40 GHz
Family	69A Series ultra low noise

Specifications

PARAMETER	VALUE
Output power resolution	0.01 dB
Source impedance	50 ohm nominal
Source SWR internal leveling below 2 GHz	less than 1.7 typical

Specifications

PARAMETER	VALUE
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

Specifications

PARAMETER	VALUE
Internal leveling	yes at output connector
RF on off	yes
Level offset	yes

Specifications

PARAMETER	VALUE
CW frequency resolution standard	1 kHz class
CW accuracy	same as internal or external 10 MHz time base
Internal time base aging	less than 2 x 10 ⁻⁸ /day class

Specifications

PARAMETER	VALUE
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

Specifications

PARAMETER	VALUE
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

Specifications

PARAMETER	VALUE
Step attenuator option to 60 GHz	Option 2D 90 dB
Rack mount option	Option 1
Remote control	GPIB

Leveled output power 0.5 to 2.2 GHz class: +13 dBm

Leveled output power greater than 2.2 to 20 GHz class: +13 dBm

Leveled output power greater than 20 to 40 GHz class: +6 dBm

Leveled output with step attenuator 0.5 to 2.2 GHz class: +11 dBm

Leveled output with step attenuator greater than 2.2 to 20 GHz class: +11 dBm

Leveled output with step attenuator greater than 20 to 40 GHz class: +3 dBm

Specifications

PARAMETER	VALUE
Analog sweep width	1 MHz to full range
Analog sweep time	30 ms to 99 s
Analog sweep accuracy class	lesser of ±30 MHz or (±2 MHz + 0.25% of sweep width) at ≤50 MHz/ms

Specifications

PARAMETER	VALUE
Step sweep	every frequency step phase locked
Output mode	CW, sweep, and modulated signal
Related CW model	69065A

Specifications

PARAMETER	VALUE
Related sweep model	69165A
Related signal model	69265A
Primary use	universal sweep/signal microwave synthesis to 40 GHz

Notes

Specs from Anritsu/Wiltron 69A Series datasheet tables for 69x65A / 69365A (0.5–40 GHz Sweep/Signal). Series: 69000A CW, 69100A Sweep, 69200A Signal, 69300A Sweep/Signal. Confirm options, max leveled power on calibration label, and connector type.

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>

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30-day returns
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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.