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Data Sheet

August 13, 2026

ANRITSU

Anritsu 69355A Synthesized Sweep/Signal Generator, 0.5 – 26.5 GHz

Anritsu 69355A Synthesized Sweep/Signal Generator 0.5–26.5 GHz The Anritsu/Wiltron 69355A is the highest-capability 69A Series universal synthesizer covering 0.5 GHz to 26.5 GHz. It combines CW, analog/step/manual sweep, and full AM/FM/phase/pulse modulation in one package for microwave stimulus and signal-simulation applications. Related 69x family members share the same band with reduced modulation or sweep feature sets. The Anritsu/Wiltron 69355A is the highest-capability 69A Series universal synthesizer covering 0.5 GHz to 26.5 GHz. It combines CW, analog/step/manual sweep, and full AM/FM/phase/pulse modulation in one package for microwave stimulus and signal-simulation applications. Related 69x family members share the same band with reduced modulation or sweep feature sets.



MODEL

Anritsu 69355A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

69355A

LISTING

<https://aumictechlabs.com/products/69355a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 69355A is a synthesized sweep/signal generator delivering precise frequency generation from 0.5 GHz to 26.5 GHz. Built for aerospace, satellite, and demanding RF/microwave applications, it combines exceptional phase noise performance with stringent power level accuracy. The instrument supports rapid frequency hopping, complex sweep modes, and list-

based test sequences, making it ideal for receiver testing, susceptibility studies, and systems requiring high spectral purity and repeatable measurements.

Technical Specifications

Frequency & Output Frequency range: 0.5 GHz to 26.5 GHz Frequency resolution: 1 Hz steps (typical) Output power: -120 dBm to +13 dBm (nominal) Power accuracy: ± 0.5 dB or better under controlled conditions Output impedance: 50 Ohms RF connector: N-type female Signal Quality Phase noise: Superior performance across modulation offsets (10 kHz, 100 kHz, 1 MHz specified in datasheets) Harmonic distortion: Low Non-harmonic spurious signals: Minimized Power flatness: Excellent across frequency bands

Key Features Synthesized architecture ensures stable, precise output Frequency sweep, amplitude sweep, and step sweep modes with user-definable parameters List mode operation for pre-programmed test sequences Rapid tuning speed optimized for efficient test execution 1 Hz frequency resolution enables fine-grained control

Typical Applications Aerospace and satellite system testing Receiver sensitivity and selectivity characterization EMI/susceptibility testing RF and microwave component validation Spectral purity-critical applications

Compatibility & Integration GPIB (IEEE 488.2) control interface SCPI command compliance for automated test sequences Integration into larger automated test systems

Features & description

From manufacturer datasheet

Features

- Full sweep/signal capability in 69300A class
- Coverage 0.5 GHz to 26.5 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
- GPIB remote control

Applications

- Swept microwave component characterization 0.5 GHz to 26.5 GHz
- High 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

69355A Characteristics / Specifications

PARAMETER	VALUE
Anritsu 69355A Synthesized Sweep/Signal Generator 0.	26.5 GHz Overview The Anritsu/Wiltron 69355A is the highest-capability 69A Series universal synthesizer covering 0.5 GHz to 26.5 GHz. It combines CW, analog/step/manual sweep, and full AM/FM/phase/pulse modulation in one package for microwave stimulus and signal-simulation applications. Related 69x family members share the same band with reduced modulation or sweep feature sets.
Model	69355A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Sweep/Signal Generator
Alias	69355A; Anritsu 69355A; Wiltron 69355A
Frequency range	0.5 GHz to 26.5 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

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
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
Rack mount option	Option 1
Remote control	GPIOB
Dimensions	429 mmWx 133 mmHx 597 mmDMass: less than or equal to 23 kg
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 26.5 GHz class	+10 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 26.5 GHz class	+7.5 dBm
RF output connector	TypeKfemale
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	69055A

PARAMETER	VALUE
Related sweep model	69155A
Related signal model	69255A
Primary use	universal sweep/signal microwave synthesis 0.5–26.5 GHz Notes Specs from Anritsu/Wiltron 69A Series datasheet tables for 69355A (0.5–26.5 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 GHz to 26.5 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
- GPIB remote control

Technical Specifications

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PARAMETER	VALUE
Model	69355A
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Instrument Type	Synthesized Sweep/Signal Generator
Alias	69355A; Anritsu 69355A; Wiltron 69355A
Frequency range	0.5 GHz to 26.5 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

PARAMETER	VALUE
Internal time base aging Option 16	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
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	GPIO
Dimensions	429 mm W x 133 mm H x 597 mm D
Mass	less than or equal to 23 kg

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 Leveled output power greater than 2.2 to 20 GHz class: +13 dBm
 Leveled output power greater than 20 to 26.5 GHz class: +10 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 26.5 GHz class: +7.5 dBm

Specifications

PARAMETER	VALUE
RF output connector	TypeKfemale
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Notes
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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

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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.