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Data Sheet

August 13, 2026

ANRITSU

Anritsu 69253A Synthesized Signal Generator, 0.01 â€" 65.0 GHz

Anritsu 69253A Synthesized Signal Generator 2 to 26.5 GHz The Anritsu/Wiltron 69253A is a 69A Series synthesized signal generator covering 2 GHz to 26.5 GHz with external AM/FM/pulse modulation and step/power sweep. It is the signal member of the 69×53A family alongside 69053A (CW), 69153A (sweep), and 69353A (sweep/signal) for applications that do not need coverage below 2 GHz. The Anritsu/Wiltron 69253A is a 69A Series synthesized signal generator covering 2 GHz to 26.5 GHz with external AM/FM/pulse modulation and step/power sweep. It is the signal member of the 69×53A family alongside 69053A (CW), 69153A (sweep), and 69353A (sweep/signal) for applications that do not need coverage below 2 GHz.



MODEL

Anritsu 69253A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

69253A

LISTING

<https://aumictechlabs.com/products/69253a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 69253A is a synthesized signal generator delivering frequency coverage from 0.01 GHz to 65 GHz with ultra-low phase noise and exceptional output power control. Purpose-built for RF and microwave component testing, R&D validation, and automatic test equipment integration, this instrument combines rapid frequency agility with flexible modulation capabilities to support

demanding measurement scenarios across extended bandwidth. Technical Specifications

Frequency Range: 0.01 GHz to 65 GHz Frequency Resolution: 1 kHz standard; 0.1 Hz optional

(Option 11) Output Power: +17 dBm maximum to -125 dBm minimum Phase Noise (SSB): -100 dBc

at 10 kHz offset from 10 GHz Non-Harmonic Spurious Signals: Better than -100 dBc Step Sweep

Capability: 1 to 10,000 steps with 1 kHz to full range step size; dwell time 1 ms to 99 seconds

Frequency Switching Time: <15 ms + 1 ms/GHz step size or <40 ms maximum (typical) Sweep

Modes: CW, step, analog, manual, and alternate sweep with independent power level control per

range Modulation Types: AM, FM, phase modulation, and pulse modulation (internal and external

parameter control) Modulation Waveforms: 7 internal generators including Gaussian noise and

user-defined arbitrary waveforms Pulse Modulation: Supports doublet, triplet, and quadruplet

configurations for RADAR testing Simultaneous Modulation: Multiple synchronized modulations

supported Programmable Agility: GPIB-controlled storage and addressing of up to 1,000 non-

sequential frequencies as phase-locked step sweep User Level Flatness Correction: Available Key

Features 5 ms maximum sweep switching time for optimized system throughput Complex

modulation capability with user-downloadable waveforms Compact form factor minimizing rack

space requirements Typical Applications High-frequency component testing and characterization

Research and development validation Local oscillator replacement Component analysis Automatic

test equipment systems Signal simulation Compatibility & Integration GPIB interface for remote

control and programmable frequency agility Ethernet standard interface USB standard interface

Features & description

From manufacturer datasheet

Features

- Synthesized signal coverage 2 to 26.5 GHz

Applications

- Modulated microwave stimulus 2 to 26.5 GHz

High power Option 15 2 to 20 GHz class: +17 dBm

Modulation: AM Ext, FM Ext, Pulse Ext (standard 69200A) Analog sweep: not standard on 69200A class Step sweep: standard Output mode: CW, step sweep, and externally modulated signal RF output connector: TypeKfemale Related CW model: 69053A Related sweep model: 69153A Related sweep signal model: 69353A Primary use: ultra low noise synthesized signal generation 2 to 26.5 GHz Notes Specs from Anritsu/Wiltron 69A Series datasheet tables for 69×53A / 69253A (2–26.5 GHz Signal). Series: 69000A CW, 69100A Sweep, 69200A Signal, 69300A Sweep/Signal. Confirm options and calibration label power.

69253A Characteristics / Specifications

PARAMETER	VALUE
Model	69253A
Manufacturer	Anritsu (Wilton 69A Series)
Instrument Type	Synthesized Signal Generator
Alias	69253A; Anritsu 69253A; Wiltron 69253A
Frequency range	2 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 accuracy	same as internal or external 10 MHz time base
Internal time base aging	less than 2×10^{-8} /day class
Residual FM 2.2 to 20 GHz class	less than 40 Hz RMS
Step attenuator option to 26.5 GHz	Option 2A 110 dB
Rack mount option	Option 1
Remote control	GPIB
Leveled output power 2 to 20 GHz class	+13 dBm
Leveled output power greater than 20 to 26.5 GHz class	+10 dBm

PARAMETER	VALUE
Leveled output with step attenuator 2 to 20 GHz class	+11 dBm
Leveled output with step attenuator greater than 20 to 26.5 GHz class	+7.5 dBm
High power Option 15 2 to 20 GHz class	+17 dBm
Modulation	AM Ext, FM Ext, Pulse Ext (standard 69200A)
Analog sweep	not standard on 69200A class
Step sweep	standard
Output mode	CW, step sweep, and externally modulated signal
RF output connector	TypeKfemale
Related CW model	69053A
Related sweep model	69153A
Related sweep signal model	69353A
Primary use	ultra low noise synthesized signal generation 2 to 26.5 GHz Notes Specs from Anritsu/Wiltron 69A Series datasheet tables for 69×53A / 69253A (2–26.5 GHz Signal). Series: 69000A CW, 69100A Sweep, 69200A Signal, 69300A Sweep/Signal. Confirm options and calibration label power.

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	69253A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Signal Generator
Specifications	
PARAMETER	VALUE
Alias	69253A; Anritsu 69253A; Wiltron 69253A
Frequency range	2 GHz to 26.5 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 2×10^{-8} /day class

Specifications

PARAMETER	VALUE
Residual FM 2.2 to 20 GHz class	less than 40 Hz RMS
Step attenuator option to 26.5 GHz	Option 2A 110 dB
Rack mount option	Option 1

Remote control: GPIB

Leveled output power 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 2 to 20 GHz class: +11 dBm

Leveled output with step attenuator greater than 20 to 26.5 GHz class: +7.5 dBm

High power Option 15 2 to 20 GHz class: +17 dBm

Specifications

PARAMETER	VALUE
Modulation	AM Ext, FM Ext, Pulse Ext (standard 69200A)
Analog sweep	not standard on 69200A class
Step sweep	standard

Specifications

PARAMETER	VALUE
Output mode	CW, step sweep, and externally modulated signal
RF output connector	TypeKfemale
Related CW model	69053A

Specifications

PARAMETER	VALUE
Related sweep model	69153A
Related sweep signal model	69353A
Primary use	ultra low noise synthesized signal generation 2 to 26.5 GHz

Notes

Specs from Anritsu/Wiltron 69A Series datasheet tables for 69x53A / 69253A (2-26.5 GHz Signal). Series: 69000A CW, 69100A Sweep, 69200A Signal, 69300A Sweep/Signal. Confirm options and calibration label power.

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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NIST-traceable calibration · SAM registered ·
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.