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Data Sheet
August 13, 2026

ANRITSU

Anritsu 69185A Synthesized Sweep Generator, 0.5 to 60 GHz

Anritsu 69185A Synthesized Sweep Generator 0.5 to 60 GHz The Anritsu/Wiltron 69185A is a 69A Series synthesized sweep generator covering 0.5 GHz to 60 GHz. It provides broadband analog and phase-locked step sweeps for RF through V-band network analysis as the sweep member of the 69×85A family. The Anritsu/Wiltron 69185A is a 69A Series synthesized sweep generator covering 0.5 GHz to 60 GHz. It provides broadband analog and phase-locked step sweeps for RF through V-band network analysis as the sweep member of the 69×85A family.

MODEL Anritsu 69185A	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU 69185A	LISTING https://aumictechlabs.com/products/69185a-2/

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

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 69185A Synthesized Sweep Generator produces precise signals across 0.5 to 60 GHz, serving component testing, system simulation, and advanced communication applications. This instrument delivers phase-locked frequency synthesis with ultra-low noise characteristics and multiple sweep modes. Engineers rely on it for accurate RF stimulus generation in laboratory and field environments where signal purity and frequency stability are critical.Technical Specifications Frequency Range Continuous: 0.5 GHz to 60 GHz Output Power Output impedance: 50 Ohm Output level flatness: User-adjustable correction available Signal Purity SSB phase noise: Ultra-low, with specifications reaching -100 dBc at 10 kHz offset from 10 GHz on related models

Spurious content: Low across the frequency range Sweep and Modulation Sweep modes: CW, step sweep, analog sweep, manual sweep Step sweep: Variable steps from 1 to 10,000 with selectable step sizes Analog sweep: Phase-locked operation with independent sweep width selection Modulation types: AM, FM, pulse modulation supported Sweep triggering: Available for analog frequency sweep, step frequency sweep, list frequency sweep, and CW power sweep Interface and Display Display: High-resolution TFT color LCD Connectivity: USB, GPIB, LANKey Features Continuous phase-locked synthesis from 0.5 to 60 GHz Multiple sweep modes for flexible stimulus patterns Variable step and analog sweep with user control AM, FM, and pulse modulation capabilities 50 Ohm output with adjustable flatness correctionTypical Applications Component characterization and S-parameter measurement System-level RF stimulus and simulation Communication system testing and validation Frequency-dependent device analysisCompatibility & Integration GPIB, USB, and LAN interfaces for automated test systems Rack mounting kits available for integrated benches Compatible with standard RF measurement platforms

Features & description

From manufacturer datasheet

Features

• Synthesized sweep coverage 0.5 to 60 GHz • Analog and phase locked step sweep • Alternate and manual sweep modes • Ultra low noise 69100A family • Optional step attenuator Option 2D class • Internal leveling at RF output • Marker functions in analog sweep • GPIB remote control

Applications

• Swept frequency stimulus 0.5 to 60 GHz • mmWave network analysis source • Component frequency response to 60 GHz • ATE rack sweeper with GPIB • Phase locked step sweeps

69185A Characteristics / Specifications

PARAMETER	VALUE
Model	69185A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Sweep Generator
Alias	69185A; Anritsu 69185A; Wiltron 69185A
Frequency range	0.5 GHz to 60 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	+11 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 dBm
Leveled output power greater than 50 to 60 GHz class	+2 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	-1.5 dBm
Leveled output with step attenuator greater than 50 to 60 GHz class	-2 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	69085A
Related signal model	69285A

PARAMETER	VALUE
Related sweep signal model	69385A
Primary use	ultra low noise synthesized sweep 0.5 to 60 GHz Notes Specs from Anritsu/Wiltron 69A Series datasheet for 69×85A / 69185A (0.5–60 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

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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

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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: +11 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 dBm
Leveled output power greater than 50 to 60 GHz class: +2 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: -1.5 dBm
Leveled output with step attenuator greater than 50 to 60 GHz class: -2 dBm

Specifications

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Analog sweep width	1 MHz to full range
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Step sweep	every frequency step phase locked
Output mode	CW and sweep
RF output connector	TypeVfemale
Related CW model	69085A
Related signal model	69285A
Related sweep signal model	69385A
Primary use	ultra low noise synthesized sweep 0.5 to 60 GHz

Notes
Specs from Anritsu/Wiltron 69A Series datasheet for 69x85A / 69185A (0.5–60 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

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