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Data Sheet

August 13, 2026

ANRITSU

Anritsu 69377A Synthesized Sweep/Signal Generator, 0.01 to 50 GHz

Anritsu 69377A Ultra Low Noise Synthesized Sweep/Signal Generator 10 MHz to 50 GHz The Anritsu/Wiltron 69377A is an ultra-low-noise synthesized sweep/signal generator covering 0.01 GHz to 50 GHz in the 69A Series. It unifies CW, analog/step sweep, and comprehensive modulation for universal signal requirements through 50 GHz on a single coax output, as the sweep/signal member of the 69×77A family. The Anritsu/Wiltron 69377A is an ultra-low-noise synthesized sweep/signal generator covering 0.01 GHz to 50 GHz in the 69A Series. It unifies CW, analog/step sweep, and comprehensive modulation for universal signal requirements through 50 GHz on a single coax output, as the sweep/signal member of the 69×77A family.



MODEL

Anritsu 69377A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

69377A

LISTING

<https://aumictechlabs.com/products/69377a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 69377A is a synthesized sweep/signal generator delivering high-spectral-purity signal generation across 0.01 GHz to 50 GHz. Part of the "El Toro" series, it features ultra-low SSB phase noise and supports internal AM, FM, phase, and pulse modulation alongside user-downloadable complex modulation. The instrument excels in demanding applications including local oscillator duty, component analysis, signal simulation, and automated test environments. Technical Specifications Frequency Coverage: 0.01 GHz to 50 GHz Output Power: Maximum +17 dBm;

Minimum -125 dBm Phase Noise: Ultra-low SSB phase noise characteristic of the series, with -100 dBc typical at 10 kHz offset from 10 GHz Resolution: 1 kHz standard; 0.1 Hz available with Option 11 Sweep Specifications: Step sweep: 1 to 10,000 steps Step size: 1 kHz to full range (0.1 Hz minimum with Option 11) Dwell time per step: 1 ms to 99 seconds Switching time: <15 ms +1 ms/GHz or <40 ms maximum (typical) Sweep time range: 30 ms to 99 seconds Sweep width: 1 kHz to full range (0.1 Hz with Option 11) Analog sweep capability with alternate and manual sweep modes Sweep Accuracy: ± 30 MHz or ± 2 MHz (whichever is lesser) for sweep speeds ≤ 50 MHz/ms Key Features Internal modulation: AM, FM, phase, pulse External modulation support Alternate sweep mode between two ranges with independent power levels Manual phase-locked frequency adjustment between sweep limits GPIB interface support for ATE integration Typical Applications Local oscillator injection Component characterization and verification RF signal simulation Automated test system integration Advanced wireless component development Compatibility & Integration GPIB connectivity enables seamless integration into automated measurement and production test systems.

Features & description

From manufacturer datasheet

Features

- Coverage 0.01 to 50 GHz • Ultra low noise 69300A universal architecture • Analog, step, alternate, and manual sweep • Internal/external AM, FM, pulse; optional phase modulation • Optional complex modulation and internal power meter • Optional 0.1 Hz resolution and oven time base • GPIB remote control • V female RF output class

Applications

- CW and swept stimulus 10 MHz to 50 GHz • Modulated microwave/mmWave signal simulation • Network analysis and ATE source applications • Radar/EW receiver testing • Single box replacement for separate CW/sweep/signal instruments

69377A Characteristics / Specifications

PARAMETER	VALUE
Model	69377A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Ultra Low Noise Synthesized Sweep/Signal Generator
Alias	69377A; Anritsu 69377A
Frequency range	0.01 GHz to 50 GHz
Family	69A Series ultra low noise sweep/signal
Leveled power 0.01 to less than 2 GHz	+12 dBm
Leveled power 2 to 20 GHz	+10 dBm
Leveled power greater than 20 to 40 GHz	+2.5 dBm
Leveled power greater than 40 to 50 GHz	+2.5 dBm
Leveled power with step attenuator 0.01 to less than 2 GHz	+10 dBm
Leveled power with step attenuator 2 to 20 GHz	+8.5 dBm
Leveled power with step attenuator greater than 20 to 40 GHz	0 dBm
Leveled power with step attenuator greater than 40 to 50 GHz	-1 dBm
Output power resolution	0.01 dB
Frequency resolution standard	1 kHz
Frequency resolution Option	0.1 Hz
Analog sweep time	30 ms to 99 s
Step sweep steps	1 to 10000
List sweep points	up to 2000 per table
SSB phase noise at 10 GHz 10 kHz offset	-100 dBc/Hz class
SSB phase noise at 50 GHz 10 kHz offset	-88 dBc/Hz class
AM bandwidth 3 dB	DC to 50 kHz minimum

PARAMETER	VALUE
Pulse PRF leveled	100 Hz to 5 MHz class
Minimum leveled power without attenuator	to -15 dBm (-20 dBm typical)
Minimum leveled power with attenuator	to -115 dBm class
CW accuracy	same as internal or external 10 MHz time base
Internal time base aging	less than 2×10^{-8} /day
Internal time base aging Option	less than 5×10^{-10} /day
RF output connector	TypeVfemale
Remote control	GPIB
Dimensions	429 mmWx 133 mmHx 597 mmDMass: less than or equal to 23 kg
Related CW model	69077A
Related sweep model	69177A
Related signal generator	69277A
Related 68B counterpart	68377B Notes Specs from Anritsu/Wiltron 69A Series datasheet for 69×77A / 69377A (0.01–50 GHz; 6XX77 power tables). Confirm options and leveled power on the unit.
Bandwidth	3 dB: 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
AM bandwidth 3 dB	DC to 50 kHz minimum
Pulse PRF leveled	100 Hz to 5 MHz class
Minimum leveled power without attenuator	to -15 dBm (-20 dBm typical)
Minimum leveled power with attenuator	to -115 dBm class
CW accuracy	same as internal or external 10 MHz time base
Internal time base aging	less than 2 x 10^-8/day
Internal time base aging Option 16	less than 5 x 10^-10/day
RF output connector	Type V female
Remote control	GPIB
Dimensions	429 mm W x 133 mm H x 597 mm D
Mass	less than or equal to 23 kg
Related CW model	69077A
Related sweep model	69177A
Related signal generator	69277A
Related 68B counterpart	68377B
Specifications	
PARAMETER	VALUE
Model	69377A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Ultra Low Noise Synthesized Sweep/Signal Generator
Alias	69377A; Anritsu 69377A
Frequency range	0.01 GHz to 50 GHz
Family	69A Series ultra low noise sweep/signal
Leveled power 0.01 to less than 2 GHz: +12 dBm	
Leveled power 2 to 20 GHz: +10 dBm	
Leveled power greater than 20 to 40 GHz: +2.5 dBm	
Leveled power greater than 40 to 50 GHz: +2.5 dBm	

Leveled power with step attenuator 0.01 to less than 2 GHz: +10 dBm
Leveled power with step attenuator 2 to 20 GHz: +8.5 dBm
Leveled power with step attenuator greater than 20 to 40 GHz: 0 dBm
Leveled power with step attenuator greater than 40 to 50 GHz: -1 dBm

Specifications

PARAMETER	VALUE
Output power resolution	0.01 dB
Frequency resolution standard	1 kHz
Frequency resolution Option 11	0.1 Hz
Analog sweep time	30 ms to 99 s
Step sweep steps	1 to 10000
List sweep points	up to 2000 per table

SSB phase noise at 10 GHz 10 kHz offset: -100 dBc/Hz class
SSB phase noise at 50 GHz 10 kHz offset: -88 dBc/Hz class

Specifications

PARAMETER	VALUE
AM bandwidth 3 dB	DC to 50 kHz minimum
Pulse PRF leveled	100 Hz to 5 MHz class
Minimum leveled power without attenuator	to -15 dBm (-20 dBm typical)
Minimum leveled power with attenuator	to -115 dBm class
CW accuracy	same as internal or external 10 MHz time base
Internal time base aging	less than 2 x 10 ⁻⁸ /day
Internal time base aging Option 16	less than 5 x 10 ⁻¹⁰ /day
RF output connector	TypeVfemale
Remote control	GPIOB
Dimensions	429 mmWx 133 mmHx 597 mmDMass: less than or equal to 23 kg
Related CW model	69077A
Related sweep model	69177A
Related signal generator	69277A
Related 68B counterpart	68377B

Notes
Specs from Anritsu/Wiltron 69A Series datasheet for 69x77A / 69377A (0.01-50 GHz; 6XX77 power tables).
Confirm options and leveled power 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

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.