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Data Sheet

August 13, 2026

ANRITSU

Anritsu 69167B Synthesized Sweep/Signal Generator 10 MHz – 40 GHz

Anritsu 69167B Ultra Low Noise Synthesized Signal Generator 0.01–40 GHz The Anritsu 69167B is an ultra-low-noise synthesized signal generator covering 0.01 GHz to 40 GHz in the 69000B/68000C family. It adds analog sweep and external AM/FM/pulse modulation to the CW base for network analysis and ATE, as the signal counterpart to 69067B (CW) and 69367B (high-performance sweep/signal) in the same band. The Anritsu 69167B is an ultra-low-noise synthesized signal generator covering 0.01 GHz to 40 GHz in the 69000B/68000C family. It adds analog sweep and external AM/FM/pulse modulation to the CW base for network analysis and ATE, as the signal counterpart to 69067B (CW) and 69367B (high-performance sweep/signal) in the same band.



MODEL

Anritsu 69167B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

69167B

LISTING

<https://aumictechlabs.com/products/69167b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu 69167B is a microprocessor-based synthesized sweep/signal generator spanning 0.01 to 40 GHz, engineered for RF design verification and complex signal simulation. It delivers phase-locked CW generation, broad and narrow-band sweeps, and multiple modulation modes including AM, FM, pulse, phase, and scan modulation. Front-panel and remote GPIB control via IEEE-488 provide full operational flexibility, while downloadable complex modulation and seven internal

waveforms expand signal generation capabilities. Technical Specifications Frequency Coverage: 0.01 to 40 GHz with 100.0 mHz resolution (0.1 Hz with Option 11). Output Power: +13 dBm to -15 dBm typical; -120 dBm achievable with optional attenuator. Switching time below 5 ms for steps under 100 MHz; typically under 15 ms plus 1 ms per GHz step size or 40 ms maximum. Phase Noise: Ultra-low SSB phase noise at -107 dBc measured 10 kHz offset from 10 GHz. Output Impedance: 50 Ω (typical). Sweep Accuracy: ± 30 MHz or ± 2 MHz widths (whichever is lesser) at sweep speeds ≤ 50 MHz/ms. Key Features Digital frequency and power sweep with step counts from 1 to 10,000 Step sizes from 1 kHz to full range; dwell time 1 ms to 99 seconds per step Alternate sweep mode between two frequency/power ranges List sweep mode: 4 tables, 2000 non-sequential frequency/power sets, GPIB-addressable Manual sweep mode for phase-locked stepped frequency adjustment Swept Delay feature for moving target simulation Modulation inputs/outputs via front- or rear-panel BNC connectors SCPI programmability with Option 19 Modulation Capabilities AM (linear, log), FM, pulse, phase, and scan modulation. Internal generators supply seven waveforms including Gaussian noise. User-downloadable complex modulation supported. Compatibility & Integration IEEE-488 GPIB interface enables remote command and control. Optional 2C/2D 90 dB step attenuator and Optional 2E 120 dB electronic step attenuator extend dynamic range. Single 13.3 cm package footprint minimizes rack space.

Features & description

From manufacturer datasheet

Features

- Coverage 0.01 to 40 GHz • Ultra low noise 69100B signal architecture • Analog sweep plus digital step and list sweep • External AM, FM, and pulse modulation • Optional 0.1 Hz resolution and oven time base • Optional step or electronic attenuator • Fast switching for ATE • GPIB remote with IVI drivers in family

Applications

- Swept and CW microwave stimulus 0.01 to 40 GHz • External AM/FM/pulse signal simulation • Component and receiver testing to 40 GHz • ATE synthesizer with list and step sweep • Low noise LO substitution

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

Output power resolution: 0.01 dB CW frequency resolution standard: 1 kHz 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 2×10^{-8} /day Internal time base aging Option 16: less than 5×10^{-10} /day Internal time base vs temperature: less than 2×10^{-8} /degCover 0 to 55 C Minimum leveled power without attenuator: to -20 dBm Minimum leveled power with attenuator: to -120 dBm SSB phase noise at 10 GHz 10 kHz offset: ultra low 69B class Switching time without attenuator change: less than 5 ms typical List sweep points: up to 2000 non sequential frequency/power sets per table Preset CW frequencies: 20 Remote control: GPIB Package height class: 13.3 cm rack family Dimensions: 133 mmHx 429 mmWx 597 mmD Analog sweep width: 1 MHz to full range Analog sweep time: 30 ms to 99 s Modulation: AM Ext, FM Ext, Pulse Ext (69100B class) RF output connector: TypeVfemale Related CW model: 69067B Related high performance: 69367B Related 68C CW: 68067C Notes Specs from Anritsu 69000B/68000C Series datasheet for 69×67B / 69167B (0.01–40 GHz Signal). Confirm options and leveled power on the unit.

69167B Characteristics / Specifications

PARAMETER	VALUE
Anritsu 69167B Ultra Low Noise Synthesized Signal Generator 0.	40 GHz Overview The Anritsu 69167B is an ultra-low-noise synthesized signal generator covering 0.01 GHz to 40 GHz in the 69000B/68000C family. It adds analog sweep and external AM/FM/pulse modulation to the CW base for network analysis and ATE, as the signal counterpart to 69067B (CW) and 69367B (high-performance sweep/signal) in the same band.
Model	69167B
Manufacturer	Anritsu
Instrument Type	Ultra Low Noise Synthesized Signal Generator
Alias	69167B; Anritsu 69167B
Frequency range	0.01 GHz to 40 GHz
Family	69000B / 68C 69B synthesizers
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 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
High power Option 15 class to 20 GHz	+17 dBm leveled class
Output power resolution	0.01 dB
CW frequency resolution standard	1 kHz
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
Internal time base aging Option	less than 5×10^{-10} /day
Internal time base vs temperature	less than 2×10^{-8} /degCover 0 to 55 C

PARAMETER	VALUE
Minimum leveled power without attenuator	to -20 dBm
Minimum leveled power with attenuator	to -120 dBm
SSB phase noise at 10 GHz 10 kHz offset	ultra low 69B class
Switching time without attenuator change	less than 5 ms typical
List sweep points	up to 2000 non sequential frequency/power sets per table
Preset CW frequencies	20
Remote control	GPIO
Package height class	13.3 cm rack family
Dimensions	133 mmHx 429 mmWx 597 mmDAnalog sweep width: 1 MHz to full range
Analog sweep time	30 ms to 99 s
Modulation	AM Ext, FM Ext, Pulse Ext (69100B class)
RF output connector	TypeVfemale
Related CW model	69067B
Related high performance	69367B
Related 68C CW	68067C Notes Specs from Anritsu 69000B/68000C Series datasheet for 69×67B / 69167B (0.01–40 GHz Signal). Confirm options and leveled power on the unit.

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 sweep/signal) in the same band.

Applications

- Swept and CW microwave stimulus 0.01 to 40 GHz
- External AM/FM/pulse signal simulation
- Component and receiver testing to 40 GHz
- ATE synthesizer with list and step sweep
- Low noise LO substitution

Key Features

- Coverage 0.01 to 40 GHz
- Ultra low noise 69100B signal architecture
- Analog sweep plus digital step and list sweep
- External AM, FM, and pulse modulation
- Optional 0.1 Hz resolution and oven time base
- Optional step or electronic attenuator
- Fast switching for ATE
- GPIB remote with IVI drivers in family

Technical Specifications

Specifications

PARAMETER	VALUE
Switching time without attenuator change	less than 5 ms typical
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Preset CW frequencies	20
Remote control	GPIB
Package height class	13.3 cm rack family
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Related CW model	69067B
Related high performance	69367B
Related 68C CW	68067C

Technical Specifications

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Model	69167B

PARAMETER	VALUE
Manufacturer	Anritsu
Instrument Type	Ultra Low Noise Synthesized Signal Generator
Alias	69167B; Anritsu 69167B
Frequency range	0.01 GHz to 40 GHz
Family	69000B / 68C 69B synthesizers

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

Specifications

PARAMETER	VALUE
Output power resolution	0.01 dB
CW frequency resolution standard	1 kHz
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
Internal time base aging Option 16	less than 5 x 10 ⁻¹⁰ /day
Internal time base vs temperature	less than 2 x 10 ⁻⁸ /degCover 0 to 55 C
Minimum leveled power without attenuator	to -20 dBm
Minimum leveled power with attenuator	to -120 dBm

SSB phase noise at 10 GHz 10 kHz offset: ultra low 69B class

Specifications

PARAMETER	VALUE
Switching time without attenuator change	less than 5 ms typical
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PARAMETER	VALUE
RF output connector	TypeVfemale
Related CW model	69067B
Related high performance	69367B
Related 68C CW	68067C

Notes
Specs from Anritsu 69000B/68000C Series datasheet for 69x67B / 69167B (0.01-40 GHz Signal). 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

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NIST-traceable calibration · SAM registered ·
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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.