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Data Sheet
August 13, 2026

ANRITSU

Anritsu 69337B Low Noise Synthesized Signal Generator, 2 to 20GHz

Anritsu 69337B Low Noise Synthesized Signal Generator 2–20 GHz The Anritsu 69337B is an ultra-low-noise high-performance synthesized signal generator covering 2 GHz to 20 GHz in the 69000B/68000C family. It provides CW and step/list sweep plus comprehensive internal AM, FM, phase, and pulse modulation for signal-simulation applications on the benchtop or in ATE. It is the high-performance signal-generator counterpart to 69037B (CW) and 69137B (signal) in the same frequency band. The Anritsu 69337B is an ultra-low-noise high-performance synthesized signal generator covering 2 GHz to 20 GHz in the 69000B/68000C family. It provides CW and step/list sweep plus comprehensive internal AM, FM, phase, and pulse modulation for signal-simulation applications on the benchtop or in ATE. It is the high-performance signal-generator counterpart to 69037B (CW) and 69137B (signal) in the same frequency band.

MODEL Anritsu 69337B	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU 69337B	LISTING https://aumictechlabs.com/products/69337b-2/

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

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 69337B is a low-noise synthesized signal generator delivering stable RF output across 2 to 20 GHz with exceptional phase noise performance for demanding radar, aerospace,

and high-frequency communication applications. Ultra-low SSB phase noise of –107 dBc at 10 kHz offset enables critical signal integrity testing in development and production environments.Technical Specifications Frequency Range: 2 GHz to 20 GHz Phase Noise: –107 dBc/Hz SSB at 10 kHz offset from 10 GHz Output Power: +17 dBm maximum; –125 dBm minimum; +17 dBm guaranteed leveled to 20 GHz Frequency Resolution: 1 kHz minimum step size (Option 11 provides 0.1 Hz) Internal Time Base Aging Rate: Typically $<2 \times 10^{-8}$/day; $<5 \times 10^{-10}$/day with Option 16 Sweep Time Accuracy: Lesser of ±30 MHz or ±2 MHz for sweep speeds ≤50 MHz/msKey Features Internal AM (0–90%, log or linear, DC to 100 kHz rates), FM (four modes to 10 MHz at 8 MHz rates or 100 MHz deviation at 100 Hz rates), phase, and pulse modulation User-downloaded arbitrary modulation with seven internal waveform generators including Gaussian noise and user-defined waveforms Pulse modulation for radar testing: doublet, triplet, quadruplet configurations with external or internal generator control Swept Delay feature for moving target simulation Simultaneous synchronized modulations for complex signal scenarios CW or step sweep modes with analog, step, and manual sweep capability Linear/log selectable sweep with step rates from 1 ms to 99 seconds per step Alternate sweep mode between two ranges with independent power levels List sweep: 4 tables with up to 2000 non-sequential frequency/power sets via GPIB or front panel Analog sweep width: 1 MHz to full range; sweep accuracy ±30 MHz or ±2 MHz width limitsTypical Applications Radar system development and blind spot testing; aerospace communication validation; high-frequency receiver characterization; phase-locked signal source applications requiring sub-100 Hz resolution and stable long-term performance.Compatibility & Integration GPIB control interface for automated test sequences and list sweep programming; front panel access for manual parameter adjustment and sweep control.

Features & description

From manufacturer datasheet

Features

• Ultra-low-noise 69XXXB architecture (SSB phase noise to -107 dBc/Hz class at 10 kHz from midband carriers) • Frequency coverage 2 to 20 GHz • High-performance internal AM, FM, ΦM, and pulse modulators • Internal modulation generators with multiple waveforms • Digital frequency sweep and power sweep • Optional 0.1 Hz resolution (Option 11) and high-stability time base (Option 16) • Optional step attenuator for wide dynamic range • GPIB remote control; compact 13.3 cm rack height family

Applications

• Microwave LO substitution and receiver testing 2–20 GHz • High-performance AM/FM/ΦM/pulse signal simulation • Radar pulse and multi-pulse recovery testing • Low-phase-noise synthesizer stimulus for ATE • Phase-locked step and list frequency sweeps • Upgradeable Anritsu 68C/69B family source for rack systems

High power Option 15 greater than 8.4 to 20 GHz: +17 dBm

Minimum leveled power without attenuator: to -20 dBm Minimum leveled power with attenuator: to -120 dBm Minimum leveled power with electronic attenuator: to -140 dBm Output power resolution: 0.01 dB or 0.001 mV 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 SSB phase noise 2 to 6 GHz at 10 kHz offset: -107 dBc/Hz SSB phase noise greater than 6 to 10 GHz at 10 kHz offset: -107 dBc/Hz SSB phase noise greater than 10 to 20 GHz at 10 kHz offset: -100 dBc/Hz Harmonics 2 to 20 GHz: -60 dBc Nonharmonic spurious 2 to 65 GHz: -60 dBc Power level accuracy 0 to 25 dB below max 0.01 to 20 GHz: ±1.0 dB Power level flatness 0 to 25 dB below max 0.01 to 20 GHz: ±0.8 dB Switching time without attenuator change: less than 3 ms typical Switching time with step attenuator change: less than 20 ms typical List sweep points: up to 2000 non sequential frequency/power sets per table Preset CW frequencies: 20 Analog sweep width: 1 MHz to full range

69337B Characteristics / Specifications

PARAMETER	VALUE
Anritsu 69337B Low Noise Synthesized Signal Generator	20 GHz Overview The Anritsu 69337B is an ultra-low-noise high-performance synthesized signal generator covering 2 GHz to 20 GHz in the 69000B/68000C family. It provides CW and step/list sweep plus comprehensive internal AM, FM, phase, and pulse modulation for signal-simulation applications on the benchtop or in ATE. It is the high-performance signal-generator counterpart to 69037B (CW) and 69137B (signal) in the same frequency band.
Model	69337B
Manufacturer	Anritsu
Instrument Type	Ultra Low Noise High Performance Synthesized Signal Generator
Alias	69337B; Anritsu 69337B
Frequency range	2 GHz to 20 GHz
Family	69000B / 68C 69B synthesizers
Leveled output power 2 to 8.4 GHz	+13 dBm
Leveled output power greater than 8.4 to 20 GHz	+13 dBm
Leveled output with step attenuator 2 to 8.4 GHz	+11 dBm
Leveled output with step attenuator greater than 8.4 to 20 GHz	+11 dBm
Leveled output with electronic attenuator 2 to 8.4 GHz	+9 dBm
Leveled output with electronic attenuator greater than 8.4 to 20 GHz	+3 dBm
High power Option 15 2 to 8.4 GHz	+17 dBm
High power Option 15 greater than 8.4 to 20 GHz	+17 dBm
Minimum leveled power without attenuator	to -20 dBm
Minimum leveled power with attenuator	to -120 dBm

PARAMETER	VALUE
Minimum leveled power with electronic attenuator	to -140 dBm
Output power resolution	0.01 dB or 0.001 mV
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
SSB phase noise 2 to 6 GHz at 10 kHz offset	-107 dBc/Hz
SSB phase noise greater than 6 to 10 GHz at 10 kHz offset	-107 dBc/Hz
SSB phase noise greater than 10 to 20 GHz at 10 kHz offset	-100 dBc/Hz
Harmonics 2 to 20 GHz	-60 dBc
Nonharmonic spurious 2 to 65 GHz	-60 dBc
Power level accuracy 0 to 25 dB below max 0.01 to 20 GHz	±1.0 dB
Power level flatness 0 to 25 dB below max 0.01 to 20 GHz	±0.8 dB
Switching time without attenuator change	less than 3 ms typical
Switching time with step attenuator change	less than 20 ms typical
List sweep points	up to 2000 non sequential frequency/power sets per table
Preset CW frequencies	20
Analog sweep width	1 MHz to full range
Analog sweep time	30 ms to 99 s
Pulse PRF leveled	100 Hz to 5 MHz
Pulse PRF unleveled	DC to 10 MHz

PARAMETER	VALUE
Remote control	GPIB
Package height class	13.3 cm rack family
Related CW model	69037B
Related signal model	69137B Notes Specs from Anritsu 69000B/68000C Series datasheet for 69×37B / 69337B (2–20 GHz). Confirm installed options (attenuator, Option 11/15/16), exact max leveled power on the calibration label, and RF connector 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 synthesized signal generator covering 2 GHz to 20 GHz in the 69000B/68000C family. It provides CW and step/list sweep plus comprehensive internal AM, FM, phase, and pulse modulation for signal-simulation applications on the benchtop or in ATE. It is the high-performance signal-generator counterpart to 69037B (CW) and 69137B (signal) in the same frequency band.

Applications
- Microwave LO substitution and receiver testing 2–20 GHz
- High-performance AM/FM/ΦM/pulse signal simulation
- Radar pulse and multi-pulse recovery testing
- Low-phase-noise synthesizer stimulus for ATE
- Phase-locked step and list frequency sweeps
- Upgradeable Anritsu 68C/69B family source for rack systems

Key Features
- Ultra-low-noise 69XXXB architecture (SSB phase noise to -107 dBc/Hz class at 10 kHz from midband carriers)
- Frequency coverage 2 to 20 GHz
- High-performance internal AM, FM, ΦM, and pulse modulators
- Internal modulation generators with multiple waveforms
- Digital frequency sweep and power sweep
- Optional 0.1 Hz resolution (Option 11) and high-stability time base (Option 16)
- Optional step attenuator for wide dynamic range
- GPIB remote control; compact 13.3 cm rack height family

Technical Specifications

Technical Specifications

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Manufacturer	Anritsu
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Leveled output power greater than 8.4 to 20 GHz: +13 dBm
Leveled output with step attenuator 2 to 8.4 GHz: +11 dBm
Leveled output with step attenuator greater than 8.4 to 20 GHz: +11 dBm
Leveled output with electronic attenuator 2 to 8.4 GHz: +9 dBm
Leveled output with electronic attenuator greater than 8.4 to 20 GHz: +3 dBm
High power Option 15 2 to 8.4 GHz: +17 dBm
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Specifications

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Output power resolution	0.01 dB or 0.001 mV
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

SSB phase noise 2 to 6 GHz at 10 kHz offset: -107 dBc/Hz
SSB phase noise greater than 6 to 10 GHz at 10 kHz offset: -107 dBc/Hz
SSB phase noise greater than 10 to 20 GHz at 10 kHz offset: -100 dBc/Hz
Harmonics 2 to 20 GHz: -60 dBc
Nonharmonic spurious 2 to 65 GHz: -60 dBc
Power level accuracy 0 to 25 dB below max 0.01 to 20 GHz: ±1.0 dB
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Specifications

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List sweep points	up to 2000 non sequential frequency/power sets per table
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Pulse PRF leveled	100 Hz to 5 MHz
Pulse PRF unleveled	DC to 10 MHz
Remote control	GPIB
Package height class	13.3 cm rack family
Related CW model	69037B
Related signal model	69137B

Notes
Specs from Anritsu 69000B/68000C Series datasheet for 69x37B / 69337B (2–20 GHz). Confirm installed options (attenuator, Option 11/15/16), exact max leveled power on the calibration label, and RF connector 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

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