

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

ANRITSU

Anritsu 69037B Ultra Low Noise Synthesized CW Generator, 2 â€" 20.0 GHz

Anritsu 69037B Synthesized CW Generator 2 GHz to 20 GHz The Anritsu 69037B is an ultra-low-noise synthesized CW generator covering 2 GHz to 20 GHz in the 69000B / 68C-69B family. It is the premier low-phase-noise CW source for LO duty and other CW applications in this band, with digital frequency/power sweep, wide dynamic range, and GPIB control. The Anritsu 69037B is an ultra-low-noise synthesized CW generator covering 2 GHz to 20 GHz in the 69000B / 68C-69B family. It is the premier low-phase-noise CW source for LO duty and other CW applications in this band, with digital frequency/power sweep, wide dynamic range, and GPIB control.



MODEL

Anritsu 69037B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

69037B

LISTING

<https://aumictechlabs.com/products/69037b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 69037B is a ultra low noise synthesized CW generator delivering exceptional signal purity across 2 GHz to 20.0 GHz. Engineered for RF applications demanding minimal phase noise - achieving -107 dBc at 10 kHz offset from 10 GHz - this instrument excels in mixer and amplifier characterization, RADAR testing, and complex signal generation. Output spans -125 dBm to +17 dBm with selectable 1 kHz or 0.1 Hz frequency resolution. Internal and downloadable modulation

capabilities include AM, FM, phase modulation, pulse modulation with doublet/triplet/quadruplet sequences, and arbitrary waveform synthesis. Sweep modes support step, analog, and manual operation with variable dwell times and 1 to 10,000 configurable steps. GPIB control is standard; SCPI programmability and ovenized time base stability are available via options.

Technical Specifications

Frequency Range: 2 GHz to 20.0 GHz Output Power: -125 dBm to +17 dBm SSB Phase Noise: -107 dBc at 10 kHz offset from 10 GHz Frequency Resolution: 1 kHz standard; 0.1 Hz with Option 11 Output Impedance: 50 Ohms (typical) Step Sweep: 1 to 10,000 steps; step time 1 ms to 99 seconds; dwell time 20 ms to 99 seconds Time Base: Standard or ovenized 10 MHz crystal oscillator ($<5 \times 10^{-10}$ /day) with Option 16

Key Features

Internal AM, FM, phase, and pulse modulation with 7 modulating waveforms User-downloadable arbitrary and complex modulation waveforms RADAR pulse capability: doublet, triplet, quadruplet sequences with swept delay for moving target simulation Simultaneous synchronized modulations for complex signal scenarios Linear or logarithmic sweep modes Alternate sweep mode with independent power levels per sweep range Manual sweep with user-selectable step count or step size Low spurious signal performance

Typical Applications

Mixer and amplifier evaluation RADAR blind spot and moving target testing Phase noise-critical RF measurements Complex modulation signal generation

Compatibility & Integration

GPIB control: Standard SCPI programmability: Option 19 (IEEE 488.2-1987 compliant) Rear panel RF output and modulation connectors

Features & description

From manufacturer datasheet

Features

- Ultra-low SSB phase noise 69B architecture
- Frequency coverage 2 to 20 GHz
- Digital frequency sweep and digital power sweep
- Leveled power to +13 dBm standard; +17 dBm with Option 15
- Optional electronic step attenuator to about -140 dBm
- Switching less than 5 ms for less than 100 MHz steps
- Optional 0.1 Hz resolution (Option 11)
- GPIB remote; compact 13.3 cm rack height

Applications

- Ultra-low-noise CW LO substitution 2 to 20 GHz
- High-bit-rate digital and optical clock references
- ATE microwave stimulus with fast switching
- Receiver sensitivity testing with deep attenuator options
- Upgradeable 68C/69B family platform

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

Minimum leveled power without attenuator: to -15 dBm (-20 dBm typical) 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 Internal time base aging: less than 2×10^{-8} /day Internal time base aging Option 16: less than 5×10^{-10} /day 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: -60 dBc CW switching time max freq 20 GHz: less than 40 ms to within 1 kHz typical List sweep points: up to 2000 frequency/power sets per table Remote control: GPIB Dimensions: 133 mmHx 429 mmWx 597 mmDWeight: 23 kg maximum Related sweep model: 69137B Related signal generator: 69337B RelatedArevision CW: 69037A Power level accuracy typical family: plus or minus 1.0 dB Sweep step switching less than 100 MHz: less than 5 ms Notes Specs from Anritsu 69000B/68000C Series datasheet for 69×37B / 69037B (2–20 GHz). Confirm attenuator type and Option 15/16 on the unit.

69037B Characteristics / Specifications

PARAMETER	VALUE
Model	69037B
Manufacturer	Anritsu
Instrument Type	Synthesized CW Generator
Alias	69037B; Anritsu 69037B
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 20 GHz	+17 dBm
Minimum leveled power without attenuator	to -15 dBm (-20 dBm typical)
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	0.1 Hz
Internal time base aging	less than 2×10^{-8} /day
Internal time base aging Option	less than 5×10^{-10} /day

PARAMETER	VALUE
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	-60 dBc
CW switching time max freq 20 GHz	less than 40 ms to within 1 kHz typical
List sweep points	up to 2000 frequency/power sets per table
Remote control	GPIO
Dimensions	133 mmHx 429 mmWx 597 mmDWeight: 23 kg maximum
Related sweep model	69137B
Related signal generator	69337B
RelatedArevision CW	69037A
Power level accuracy typical family	plus or minus 1.0 dB
Sweep step switching less than 100 MHz	less than 5 ms Notes Specs from Anritsu 69000B/68000C Series datasheet for 69×37B / 69037B (2–20 GHz). Confirm attenuator type and Option 15/16 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.

Specifications

Specifications

PARAMETER	VALUE
Harmonics 2 to 20 GHz	-60 dBc
Nonharmonic spurious	-60 dBc
CW switching time max freq 20 GHz	less than 40 ms to within 1 kHz typical
List sweep points	up to 2000 frequency/power sets per table
Remote control	GPIB
Dimensions	133 mm H x 429 mm W x 597 mm D
Weight	23 kg maximum
Related sweep model	69137B
Related signal generator	69337B
Related A revision CW	69037A
Power level accuracy typical family	plus or minus 1.0 dB
Sweep step switching less than 100 MHz	less than 5 ms

Specifications

PARAMETER	VALUE
Model	69037B
Manufacturer	Anritsu
Instrument Type	Synthesized CW Generator
Alias	69037B; Anritsu 69037B
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 20 GHz: +17 dBm

Specifications

PARAMETER	VALUE
Minimum leveled power without attenuator	to -15 dBm (-20 dBm typical)
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
Internal time base aging	less than 2×10^{-8} /day
Internal time base aging Option 16	less than 5×10^{-10} /day

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

Specifications

PARAMETER	VALUE
Harmonics 2 to 20 GHz	-60 dBc
Nonharmonic spurious	-60 dBc
CW switching time max freq 20 GHz	less than 40 ms to within 1 kHz typical
List sweep points	up to 2000 frequency/power sets per table
Remote control	GPiB
Dimensions	133 mmHx 429 mmWx 597 mmDWeight: 23 kg maximum
Related sweep model	69137B
Related signal generator	69337B
RelatedArevision CW	69037A
Power level accuracy typical family	plus or minus 1.0 dB
Sweep step switching less than 100 MHz	less than 5 ms

Notes

Specs from Anritsu 69000B/68000C Series datasheet for 69x37B / 69037B (2–20 GHz). Confirm attenuator type and Option 15/16 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>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 13, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.