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Data Sheet

August 13, 2026

ANRITSU

Anritsu 68337C Synthesized High Performance Signal Generator, 2 to 20 GHz

Anritsu 68337C High Performance Synthesized Signal Generator 2 GHz to 20 GHz The Anritsu 68337C is a high-performance synthesized signal generator covering 2 GHz to 20 GHz in the 68300C family. It combines CW, analog/digital sweep, and comprehensive internal/external AM, FM, pulse, and optional phase modulation for complex signal simulation in the 2–20 GHz band with GPIB control. The Anritsu 68337C is a high-performance synthesized signal generator covering 2 GHz to 20 GHz in the 68300C family. It combines CW, analog/digital sweep, and comprehensive internal/external AM, FM, pulse, and optional phase modulation for complex signal simulation in the 2–20 GHz band with GPIB control.



MODEL

Anritsu 68337C

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

68337C

LISTING

<https://aumictechlabs.com/products/68337c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 68337C is a synthesized signal generator delivering precision microwave outputs across 2 to 20 GHz. It combines ultra-low phase noise, fast switching, and flexible modulation to support local oscillator duty, network analysis, ATE systems, and advanced radar/satellite applications. Phase-locked step sweeps, list mode programming, and simultaneous modulation modes enable rapid test sequences with minimal settling time. Technical Specifications Frequency Range: 2 to 20 GHz with 1 kHz standard resolution (0.1 Hz optional via Option 11). Output Power:

+17 dBm maximum leveled to 20 GHz; minimum -125 dBm. Option 15B (High Power) maintains +17 dBm across frequency sub-ranges. Option 22 reduces rated output by 1 dB for models with upper frequency ≤ 20 GHz. Phase Noise: -107 dBc SSB at 10 kHz offset from 10 GHz. Switching Time: Less than 5 ms for sweep steps below 100 MHz. Key Features Modulation: Internal AM (0-90% depth, DC to 100 kHz rates), FM (four modes, 10 MHz to 100 MHz deviation), and pulse generation with swept delay for moving target simulation. Doublet, triplet, and quadruplet pulses for radar blind-spot testing. Pulse on/off ratio exceeds 80 dB; rise/fall time under 10 ns. Waveform Support: Seven internal modulating waveforms including Gaussian noise and user-defined arbitrary waveforms. Simultaneous synchronized modulations supported. Sweep Modes: Digital frequency and power sweep, fast analog sweep, step sweep (1 ms to 99 seconds/step), fixed-rate step sweep (20 ms to 99 seconds/step), alternate sweep between two ranges, manual stepped adjustment, logarithmic step sweep, and list mode with up to 4 tables of 2000 non-sequential frequency/power sets. Low Spurious Output: Ultra-low spurious signals ensure clean spectral performance. Typical Applications Satellite communications, radar systems development, wireless production testing, component characterization, and ATE integration requiring stable local oscillator sources or modulated stimulus signals.

Features & description

From manufacturer datasheet

Features

- Frequency coverage 2 GHz to 20 GHz
- Full internal AM FM pulse and optional phase modulation
- Internal modulation generators with seven waveforms
- Digital and analog sweep with less than 5 ms step switching
- Optional 0.1 Hz resolution and high-stability time base
- Compact 13.3 cm rack height with GPIB

Applications

- Complex modulated signal simulation 2 to 20 GHz
- Receiver and radar moving-target pulse delay tests
- ATE stimulus with list mode and fast switching
- Low-phase-noise LO applications in this band

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

Minimum leveled power without attenuator: -15 dBm (-20 dBm typical) Minimum leveled power with attenuator: -120 dBm Minimum leveled power with electronic attenuator: -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 68XXXC 2 to 6 GHz at 10 kHz: -86 dBc/Hz SSB phase noise 68XXXC greater than 10 to 20 GHz at 10 kHz: -78 dBc/Hz Harmonics 2 to 20 GHz: -60 dBc Nonharmonic spurious: -60 dBc AM depth: 0 to 90 percent log or linear DC to 100 kHz rates Pulse PRF: DC to 10 MHz unleveled 100 Hz to 5 MHz leveled Remote control: IEEE 488 GPIB Dimensions: 133 mmHx 429 mmWx 597 mmD Weight: 23 kg maximum Related CW model: 68037C Related signal model: 68137C Related ultra low noise: 69337B Notes Specs from Anritsu 68000C/69000B Series datasheet for 68x37C / 68337C (2–20 GHz). Confirm modulation options (6, 20 AM SCAN), attenuator, and Option 11/15/16 on the unit.

68337C Characteristics / Specifications

PARAMETER	VALUE
Model	68337C
Manufacturer	Anritsu
Instrument Type	High Performance Synthesized Signal Generator
Alias	68337C; Anritsu 68337C
Frequency range	2 GHz to 20 GHz
Family	68300C Series
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	-15 dBm (-20 dBm typical)
Minimum leveled power with attenuator	-120 dBm
Minimum leveled power with electronic attenuator	-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 68XXXC 2 to 6 GHz at 10 kHz	-86 dBc/Hz
SSB phase noise 68XXXC greater than 10 to 20 GHz at 10 kHz	-78 dBc/Hz
Harmonics 2 to 20 GHz	-60 dBc
Nonharmonic spurious	-60 dBc
AM depth	0 to 90 percent log or linear DC to 100 kHz rates
Pulse PRF	DC to 10 MHz unleveled 100 Hz to 5 MHz leveled
Remote control	IEEE 488 GPIB
Dimensions	133 mmHx 429 mmWx 597 mmDWeight: 23 kg maximum
Related CW model	68037C
Related signal model	68137C
Related ultra low noise	69337B Notes Specs from Anritsu 68000C/69000B Series datasheet for 68×37C / 68337C (2–20 GHz). Confirm modulation options (6, 20 AM SCAN), attenuator, and Option 11/15/16 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.

Performance Synthesized Signal Generator 2 GHz to 20 GHz

Overview

The Anritsu 68337C is a high-performance synthesized signal generator covering 2 GHz to 20 GHz in the 68300C family. It combines CW, analog/digital sweep, and comprehensive internal/external AM, FM, pulse, and optional phase modulation for complex signal simulation in the 2–20 GHz band with GPIB control.

Applications

- Complex modulated signal simulation 2 to 20 GHz
- Receiver and radar moving-target pulse delay tests
- ATE stimulus with list mode and fast switching
- Low-phase-noise LO applications in this band

Key Features

- Frequency coverage 2 GHz to 20 GHz
- Full internal AM FM pulse and optional phase modulation
- Internal modulation generators with seven waveforms
- Digital and analog sweep with less than 5 ms step switching
- Optional 0.1 Hz resolution and high-stability time base
- Compact 13.3 cm rack height with GPIB

Technical Specifications

Specifications

PARAMETER	VALUE
Harmonics 2 to 20 GHz	-60 dBc
Nonharmonic spurious	-60 dBc
AM depth	0 to 90 percent log or linear DC to 100 kHz rates
Pulse PRF	DC to 10 MHz unleveled 100 Hz to 5 MHz leveled
Remote control	IEEE 488 GPIB
Dimensions	133 mm H x 429 mm W x 597 mm D
Weight	23 kg maximum
Related CW model	68037C
Related signal model	68137C
Related ultra low noise	69337B

Technical Specifications

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PARAMETER	VALUE
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Family	68300C Series
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Leveled output power greater than 8.4 to 20 GHz: +13 dBm
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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	-15 dBm (-20 dBm typical)
Minimum leveled power with attenuator	-120 dBm
Minimum leveled power with electronic attenuator	-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 x 10 ⁻⁸ /day
Internal time base aging Option 16	less than 5 x 10 ⁻¹⁰ /day

SSB phase noise 68XXXC 2 to 6 GHz at 10 kHz: -86 dBc/Hz
SSB phase noise 68XXXC greater than 10 to 20 GHz at 10 kHz: -78 dBc/Hz

Specifications

PARAMETER	VALUE
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Notes
Specs from Anritsu 68000C/69000B Series datasheet for 68x37C / 68337C (2-20 GHz). Confirm modulation options

(6, 20 AM SCAN), attenuator, and Option 11/15/16 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

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NIST-traceable calibration · SAM registered ·
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.