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Data Sheet

August 13, 2026

ANRITSU

Anritsu 68347C Synthesized High Performance Signal Generator, 10 MHz – 20 GHz

Anritsu 68347C High Performance Synthesized Signal Generator 10 MHz to 20 GHz The Anritsu 68347C is a high-performance synthesized signal generator covering 10 MHz 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 across the full 0.01–20 GHz band with GPIB control. The Anritsu 68347C is a high-performance synthesized signal generator covering 10 MHz 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 across the full 0.01–20 GHz band with GPIB control.



MODEL

Anritsu 68347C

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

68347C

LISTING

<https://aumictechlabs.com/products/68347c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 68347C is a synthesized signal generator spanning 10 MHz to 20 GHz, engineered for RF and microwave component testing in ATE and R&D environments. It delivers +17 dBm guaranteed leveled power across its full range with 1 kHz frequency resolution and 0.01 dB output power steps. The instrument combines ultra-low SSB phase noise (-107 dBc at 10 kHz offset from

10 GHz), sub-5 ms switching time, and advanced modulation flexibility AM, FM, pulse, phase, and scan modes with seven internal waveforms plus user-defined options. Pulse modulation supports radar blind spot simulation, recovery time testing, and moving target emulation. Sweep capabilities span digital frequency and power sweep, analog sweep, step sweep with up to 10,000 phase-locked steps adjustable from 1 ms to 99 seconds per step, logarithmic sweep, and alternate sweep between two ranges. List mode stores up to 4 tables with 2000 non-sequential frequency/power sets. Optional 110 dB step attenuator (Option 2A) extends dynamic range to -120 dBm minimum output; Option 11 provides 0.1 Hz frequency resolution. Internal noise generators (Gaussian and uniform) support controlled jitter in digital receiver testing. Output power flatness remains within 4.0 dB (0.01–0.05 GHz) and 2.0 dB (0.05–20 GHz) typical. Less than 5 ms switching time enables rapid frequency and power transitions across demanding automated test sequences.

Technical Specifications

Frequency Range: 10 MHz to 20 GHz
Frequency Resolution: 1 kHz standard; 0.1 Hz with Option 11
Output Power: +17 dBm guaranteed leveled power to 20 GHz; +13 to -15 dBm typical; -120 dBm minimum with attenuator; -125 dBm minimum power; +11 dBm with step attenuator
Output Power Steps: 0.01 dB
Output Power Flatness: 4.0 dB (0.01–0.05 GHz); 2.0 dB (0.05–20 GHz) typical
SSB Phase Noise: -107 dBc at 10 kHz offset from 10 GHz
Switching Time: Less than 5 ms
Step Attenuator (Option 2A): 110 dB range in 10 dB steps

Key Features

AM, FM, phase, pulse, and scan modulation with seven internal waveforms
Pulse modulation for radar simulation, blind spot testing, recovery time analysis, and moving target emulation
Digital and analog frequency sweep; digital power sweep
Step sweep: 1 to 10,000 steps, 1 kHz resolution, 1 ms to 99 seconds per step
Log sweep with frequency-dependent step scaling
Alternate sweep mode between two independent ranges
Manual stepped sweep with phase-locked adjustment
List mode: 4 tables × 2000 frequency/power sets
Gaussian and uniform noise generators for jitter simulation
Dwell time: 20 ms to 99 seconds per step
Ultra-low spurious signals

Typical Applications

RF and microwave component characterization
Radar receiver and transceiver testing
Digital receiver validation with controlled jitter
Automated test equipment integration
Phase-locked frequency and power stepping

Compatibility & Integration

Designed for ATE environments and laboratory R&D with automated control interfaces supporting complex signal sequences.

Features & description

From manufacturer datasheet

Features

- Frequency coverage 10 MHz to 20 GHz (Option 22 to 0.1 Hz)
- 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 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 mmDWeight: 23 kg maximum Related CW model: 68047C Related signal model: 68147C Related ultra low noise: 69347B Notes Specs from Anritsu 68000C/69000B Series datasheet for 68×47C / 68347C (0.01–20 GHz). Confirm modulation options (6, 20 AM SCAN), attenuator, and Option 11/15/16/22 on the unit.

68347C Characteristics / Specifications

PARAMETER	VALUE
Model	68347C
Manufacturer	Anritsu
Instrument Type	High Performance Synthesized Signal Generator
Alias	68347C; Anritsu 68347C
Frequency range standard	10 MHz to 20 GHz
Frequency extension Option	0.1 Hz to 10 MHz
Family	68300C Series
Leveled output power 0.01 to less than 2 GHz	+13 dBm
Leveled output power 2 to 20 GHz	+13 dBm
Leveled output with step attenuator 0.01 to less than 2 GHz	+11 dBm
Leveled output with step attenuator 2 to 20 GHz	+11 dBm
Leveled output with electronic attenuator 0.01 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

PARAMETER	VALUE
Internal time base aging Option	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 mmDWeight: 23 kg maximum
Related CW model	68047C
Related signal model	68147C
Related ultra low noise	69347B Notes Specs from Anritsu 68000C/69000B Series datasheet for 68×47C / 68347C (0.01–20 GHz). Confirm modulation options (6, 20 AM SCAN), attenuator, and Option 11/15/16/22 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 10 MHz to 20 GHz

Overview

The Anritsu 68347C is a high-performance synthesized signal generator covering 10 MHz 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 across the full 0.01–20 GHz band with GPIB control.

Applications

- Complex modulated signal simulation 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 10 MHz to 20 GHz (Option 22 to 0.1 Hz)
- 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	68047C
Related signal model	68147C
Related ultra low noise	69347B

Technical Specifications

PARAMETER	VALUE
Model	68347C
Manufacturer	Anritsu
Instrument Type	High Performance Synthesized Signal Generator
Alias	68347C; Anritsu 68347C

PARAMETER	VALUE
Frequency range standard	10 MHz to 20 GHz
Frequency extension Option 22	0.1 Hz to 10 MHz
Family	68300C Series

Leveled output power 0.01 to less than 2 GHz: +13 dBm
Leveled output power 2 to 20 GHz: +13 dBm
Leveled output with step attenuator 0.01 to less than 2 GHz: +11 dBm
Leveled output with step attenuator 2 to 20 GHz: +11 dBm
Leveled output with electronic attenuator 0.01 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
Harmonics 2 to 20 GHz	-60 dBc
Nonharmonic spurious	-60 dBc
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Related CW model	68047C
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Related ultra low noise	69347B

Notes

Specs from Anritsu 68000C/69000B Series datasheet for 68x47C / 68347C (0.01-20 GHz). Confirm modulation options (6, 20 AM SCAN), attenuator, and Option 11/15/16/22 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.