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Data Sheet

August 13, 2026

ANRITSU

Anritsu 68197C Synthesized Signal Generator, 10 MHz to 65 GHz

Anritsu 68197C Synthesized Signal Generator 10 MHz to 65 GHz The Anritsu 68197C is a synthesized signal generator covering 10 MHz to 65 GHz in the 68100C family. It provides analog sweep, external modulation, digital frequency/power sweep, and GPIB control for full-band millimeter-wave stimulus and ATE in the 6XX97C coverage class. The Anritsu 68197C is a synthesized signal generator covering 10 MHz to 65 GHz in the 68100C family. It provides analog sweep, external modulation, digital frequency/power sweep, and GPIB control for full-band millimeter-wave stimulus and ATE in the 6XX97C coverage class.



MODEL

Anritsu 68197C

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

68197C

LISTING

<https://aumictechlabs.com/products/68197c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu 68197C is a synthesized signal generator delivering continuous frequency coverage from 10 MHz to 65 GHz. Built for RF and microwave test environments, it combines spectral purity with rapid frequency switching to support advanced research, radar development, aerospace and defense validation, and high-frequency telecommunications testing. The instrument provides precise signal generation across its full band with modulation flexibility for complex system characterization. Technical Specifications Frequency Range: 10 MHz to 65 GHz continuous coverage Key Features Fast frequency switching enables rapid test sequencing and dynamic

system analysis Modulation capabilities support both internal and external modulation inputs Engineered for spectral purity across the full frequency range Typical Applications Advanced research and development Radar system design and testing Aerospace and defense applications High-frequency telecommunications testing Electronic warfare simulation Satellite communications testing Compatibility & Integration The 68197C integrates remote control interfaces for automated test environments and laboratory systems requiring programmable signal generation across microwave and millimeter-wave frequencies.

Features & description

From manufacturer datasheet

Features

• Frequency coverage 10 MHz to 65 GHz • Analog sweep plus digital frequency and power sweep • External AM and FM modulation • Less than 5 ms switching for less than 100 MHz steps • Banded leveled output per 68×97C tables • IEEE-488 GPIB remote control

Applications

• Swept and CW microwave stimulus 10 MHz to 65 GHz • External AM/FM modulated LO and receiver testing • ATE with fast switching and list mode • Full band mmWave network analyzer source substitution

68197C Characteristics / Specifications

PARAMETER	VALUE
Model	68197C
Manufacturer	Anritsu
Instrument Type	Synthesized Signal Generator
Alias	68197C; Anritsu 68197C
Frequency range standard	10 MHz to 65 GHz
Frequency extension Option	0.1 Hz to 10 MHz
Family	68100C Series
Leveled output 0.01 to less than 2 GHz	+12 dBm
Leveled output 2 to 20 GHz	+10 dBm
Leveled output greater than 20 to 40 GHz	+2.5 dBm
Leveled output greater than 40 to 50 GHz	0 dBm
Leveled output greater than 50 to 65 GHz	-2 dBm
Step attenuator above 40 GHz	not available per datasheet tables
Minimum leveled power without attenuator	-15 dBm (-20 dBm typical)
Minimum leveled power with attenuator	-105 dBm class
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
SSB phase noise 68XXXC 2 to 6 GHz at 10 kHz	-86 dBc/Hz
Harmonics family typical	-50 to -60 dBc by band
Nonharmonic spurious	-60 dBc
Sweep step switching less than 100 MHz	less than 5 ms

PARAMETER	VALUE
Remote control	IEEE 488 GPIB
Dimensions	133 mmHx 429 mmWx 597 mmDWeight: 23 kg maximum
RF output connector	TypeVfemale
Related CW model	68097C
Related high performance signal	68397C
Related ultra low noise	69197B Notes Specs from Anritsu 68000C/69000B Series datasheet for 68×97C / 68197C (0.01–65 GHz). Confirm Option 11/16/22, mmWave leveled power, andVconnector 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	
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PARAMETER	VALUE
Model	68197C
Manufacturer	Anritsu
Instrument Type	Synthesized Signal Generator
Alias	68197C; Anritsu 68197C
Frequency range standard	10 MHz to 65 GHz
Frequency extension Option 22	0.1 Hz to 10 MHz
Family	68100C Series
Leveled output 0.01 to less than 2 GHz: +12 dBm Leveled output 2 to 20 GHz: +10 dBm Leveled output greater than 20 to 40 GHz: +2.5 dBm Leveled output greater than 40 to 50 GHz: 0 dBm Leveled output greater than 50 to 65 GHz: -2 dBm	
Specifications	
PARAMETER	VALUE
Step attenuator above 40 GHz	not available per datasheet tables

PARAMETER	VALUE
Minimum leveled power without attenuator	-15 dBm (-20 dBm typical)
Minimum leveled power with attenuator	-105 dBm class
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

Specifications

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Harmonics family typical	-50 to -60 dBc by band
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Notes

Specs from Anritsu 68000C/69000B Series datasheet for 68x97C / 68197C (0.01–65 GHz). Confirm Option 11/16/22, mmWave leveled power, andVconnector 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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.