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Data Sheet

August 13, 2026

ANRITSU

Anritsu 68137C Synthesized Signal Generator, 2 GHz

Anritsu 68137C Synthesized Signal Generator 2 GHz to 20 GHz The Anritsu 68137C is a synthesized signal generator covering 2 GHz to 20 GHz in the 68100C family. It provides analog sweep, external modulation, digital frequency/power sweep, and GPIB control for network-analysis sources and ATE in the 2–20 GHz microwave band, sharing 68×37C leveled-power tables with related CW and high-performance models. The Anritsu 68137C is a synthesized signal generator covering 2 GHz to 20 GHz in the 68100C family. It provides analog sweep, external modulation, digital frequency/power sweep, and GPIB control for network-analysis sources and ATE in the 2–20 GHz microwave band, sharing 68×37C leveled-power tables with related CW and high-performance models.



MODEL

Anritsu 68137C

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

68137C

LISTING

<https://aumictechlabs.com/products/68137c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 68137C is a synthesized signal generator delivering precision frequency synthesis and signal generation across 2–20 GHz. Built for telecommunications, aerospace, and defense applications, it combines ultra-low phase noise, high output power, and extensive modulation flexibility to support laboratory and field testing environments. The instrument features phase-locked step and list sweep modes, master/slave synchronization capability, and configurable

pulse modulation for radar and converter characterization. Advanced connectivity and automation support streamline integration into ATE systems while maintaining straightforward manual operation. Technical Specifications Frequency Range: 2 GHz to 20 GHz Frequency Resolution: 0.01 Hz (0.1 Hz optional) Output Power: -110 dBm to +20 dBm (guaranteed leveled to +17 dBm across full range); minimum -125 dBm; leveled power to -120 dBm in 0.01 dB steps Phase Noise: -120 dBc/Hz at 10 kHz offset (typical) Harmonics: <-60 dBc Non-Harmonics: <-80 dBc Spurious: <-80 dBc Frequency Switching: 80 dB, rise/fall time <10 ns; supports doublet, triplet, and quadruplet pulse patterns for radar blind-spot testing; external and internal trigger modes Step Sweep: Phase-locked accuracy; 4 tables, 2000 non-sequential points per table List Sweep: 2000-point table, non-volatile storage Manual Sweep: Phase-locked stepped adjustment between limits Alternate Sweep: Bidirectional sweep between independent ranges with separate power control Internal List Mode: Decouples ATE controller for concurrent measurement analysis Master/Slave Configuration: Synchronized dual-synthesizer operation for mixer and converter testing Typical Applications RF/Microwave component characterization Radar and EW system testing Frequency converter and mixer measurements Telecommunications signal path validation Aerospace and defense instrumentation Connectivity & Integration External reference input for frequency calibration. Phase-locked output control supports automated test environments and manual bench operation.

Features & description

From manufacturer datasheet

Features

- Frequency coverage 2 GHz to 20 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 • Optional attenuator and Option 15 high power to +17 dBm • IEEE-488 GPIB remote control

Applications

- Swept microwave stimulus 2 to 20 GHz • External AM/FM LO and component testing • ATE with fast switching and list mode • Network analyzer source substitution 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 Sweep step switching less than 100 MHz: less than 5 ms Remote control: IEEE 488 GPIB Dimensions: 133 mmHx 429 mmWx 597 mmDWeight: 23 kg maximum Related CW model: 68037C Related high performance signal: 68337C Related ultra low noise: 69137B Notes Specs from Anritsu 68000C/69000B Series datasheet for 68×37C / 68137C (2–20 GHz). Confirm Option 11/15/16 and attenuator type on the unit.

68137C Characteristics / Specifications

PARAMETER	VALUE
Model	68137C
Manufacturer	Anritsu
Instrument Type	Synthesized Signal Generator
Alias	68137C; Anritsu 68137C
Frequency range	2 GHz to 20 GHz
Family	68100C 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
Sweep step switching less than 100 MHz	less than 5 ms
Remote control	IEEE 488 GPIB
Dimensions	133 mmHx 429 mmWx 597 mmDWeight: 23 kg maximum
Related CW model	68037C
Related high performance signal	68337C
Related ultra low noise	69137B Notes Specs from Anritsu 68000C/69000B Series datasheet for 68×37C / 68137C (2–20 GHz). Confirm Option 11/15/16 and attenuator type 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 models.

Applications

- Swept microwave stimulus 2 to 20 GHz
- External AM/FM LO and component testing
- ATE with fast switching and list mode
- Network analyzer source substitution in this band

Key Features

- Frequency coverage 2 GHz to 20 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
- Optional attenuator and Option 15 high power to +17 dBm
- IEEE-488 GPIB remote control

Technical Specifications

Specifications

PARAMETER	VALUE
Harmonics 2 to 20 GHz	-60 dBc
Nonharmonic spurious	-60 dBc
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Remote control	IEEE 488 GPIB
Dimensions	133 mm H x 429 mm W x 597 mm D
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Related CW model	68037C
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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
Harmonics 2 to 20 GHz	-60 dBc
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Notes
Specs from Anritsu 68000C/69000B Series datasheet for 68x37C / 68137C (2–20 GHz). Confirm Option 11/15/16 and attenuator type 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.