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Data Sheet
August 13, 2026

ANRITSU

Anritsu 69097A Synthesized CW Generator, 0.01 â€“ 65 GHz

Anritsu 69097A Synthesized CW Generator 10 MHz to 65 GHz The Anritsu/Wiltron 69097A is an ultra-low-noise synthesized CW generator covering 0.01 GHz to 65 GHz in the 69A Series. It provides leveled CW RF/mmWave output across the broadest 69A CW band for component, receiver, and system testing, as the CW member of the 69×97A family. The Anritsu/Wiltron 69097A is an ultra-low-noise synthesized CW generator covering 0.01 GHz to 65 GHz in the 69A Series. It provides leveled CW RF/mmWave output across the broadest 69A CW band for component, receiver, and system testing, as the CW member of the 69×97A family.

MODEL **Anritsu 69097A**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **69097A**	LISTING **https://aumictechlabs.com/products/69097a-2/**

NIST-traceable cal · SAM registered · 30-day returns · NAICS 423690 · 811210 · 541380

This unit

The Anritsu 69097A is a synthesized CW generator delivering precise signal generation across 0.01 GHz to 65 GHz with ultra-low phase noise performance. Purpose-built for high-frequency test environments, it combines fast tuning response with flexible modulation capability and GPIB programmability, making it ideal for local oscillator replacement and demanding RF/microwave applications.Technical Specifications Frequency Performance Frequency range: 0.01 GHz to 65 GHz Frequency resolution: 100.0 mHz standard; 0.1 Hz with Option 11 Phase noise: −100 dBc at 10 kHz offset from 10 GHz (typical SSB) Tuning speed: <40 ms settling to within 1 kHz of final

frequency; <15 ms + 1 ms/GHz for step sweep Output Power Standard output: +12 dBm (specifications apply at +10 dBm or maximum leveled output power, whichever is less) Maximum output: +17 dBm Spurious Performance Harmonic and harmonic-related spurious signals: - 500 MHz to 2.2 GHz: <−50 dBc - 10 MHz to 50 MHz: 50 MHz to 2 GHz: 2 GHz to 500 MHz: <−50 dBc Time Base Stability Aging: $<2 \times 10^{-8}$/day standard; $<5 \times 10^{-10}$/day with Option 16 Temperature drift: $<2 \times 10^{-8}$/°C (0 °C to 55 °C); $<2 \times 10^{-10}$/°C with Option 16Key Features Multiple modulation modes: AM, FM, phase, and pulse modulation internally; user-downloaded complex modulation supported Step sweep: 1 to 10,000 steps with variable dwell time (1 ms to 99 seconds) Phase-locked step adjustment with 1 kHz minimum step size (0.1 Hz with Option 11) Alternate sweep mode for dual-range operation with independent power level control Programmable frequency agility: up to 1,000 non-sequential frequencies via GPIB 10 MHz reference input and 0.5 V p-p output (AC coupled, 50 Ω)Compatibility & Integration GPIB control for frequency agility and remote operation External 10 MHz reference input acceptance Rear-panel BNC connector for 10 MHz reference output

Features & description

From manufacturer datasheet

Features

- Synthesized CW coverage 0.01 to 65 GHz

Applications

- Broadband CW local oscillator substitution to 65 GHz

69097A Characteristics / Specifications

PARAMETER	VALUE
Model	69097A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized CW Generator
Alias	69097A; Anritsu 69097A; Wiltron 69097A
Frequency range	10 MHz to 65 GHz
Family	69A Series ultra low noise
Output power resolution	0.01 dB
Source impedance	50 ohm nominal
Source SWR internal leveling below 2 GHz	less than 1.7 typical
Source SWR 2 to 20 GHz	less than 1.6 typical
Source SWR above 20 GHz	less than 2.0 typical
Power level stability vs temperature	0.04 dB/degCtypical
Internal leveling	yes at output connector
RF on off	yes
Level offset	yes
CW frequency resolution standard	1 kHz class
CW accuracy	same as internal or external 10 MHz time base
Internal time base aging	less than 2 × 10^-8/day class
Residual FM 0.5 to 1.0 GHz class	less than 10 Hz RMS
Residual FM 1.0 to 2.2 GHz class	less than 20 Hz RMS
Residual FM 2.2 to 20 GHz class	less than 40 Hz RMS
Step attenuator option to 26.5 GHz	Option 2A 110 dB
Step attenuator option to 40 GHz	Option 2B 110 dB
Step attenuator option to 50 GHz	Option 2C 90 dB
Step attenuator option to 60 GHz	Option 2D 90 dB

PARAMETER	VALUE
Rack mount option	Option 1
Remote control	GPIB
Leveled output power 0.01 to less than 2 GHz class	+12 dBm
Leveled output power 2 to 20 GHz class	+10 dBm
Leveled output power greater than 20 to 40 GHz class	+2.5 dBm
Leveled output power greater than 40 to 50 GHz class	0 dBm
Leveled output power greater than 50 to 65 GHz class	-2 dBm
Output mode	CW
Related sweep model	69197A
Related signal model	69297A
Related sweep signal model	69397A
Primary use	ultra low noise CW microwave/mmWave synthesis to 65 GHz Notes Specs from Anritsu/Wiltron 69A Series datasheet tables for 69×97A / 69097A (0.01–65 GHz CW). Series: 69000A CW, 69100A Sweep, 69200A Signal, 69300A Sweep/Signal. ConfirmVconnector and high-band leveled power on the calibration label.

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
Model	69097A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized CW Generator

Specifications

PARAMETER	VALUE
Alias	69097A; Anritsu 69097A; Wiltron 69097A
Frequency range	10 MHz to 65 GHz
Family	69A Series ultra low noise

Specifications

PARAMETER	VALUE
Output power resolution	0.01 dB
Source impedance	50 ohm nominal
Source SWR internal leveling below 2 GHz	less than 1.7 typical

Specifications

PARAMETER	VALUE
Source SWR 2 to 20 GHz	less than 1.6 typical
Source SWR above 20 GHz	less than 2.0 typical
Power level stability vs temperature	0.04 dB/degCtypical

Specifications

PARAMETER	VALUE
Internal leveling	yes at output connector
RF on off	yes
Level offset	yes

Specifications

PARAMETER	VALUE
CW frequency resolution standard	1 kHz class
CW accuracy	same as internal or external 10 MHz time base
Internal time base aging	less than 2 x 10^-8/day class

Specifications

PARAMETER	VALUE
Residual FM 0.5 to 1.0 GHz class	less than 10 Hz RMS
Residual FM 1.0 to 2.2 GHz class	less than 20 Hz RMS
Residual FM 2.2 to 20 GHz class	less than 40 Hz RMS

Specifications

PARAMETER	VALUE
Step attenuator option to 26.5 GHz	Option 2A 110 dB
Step attenuator option to 40 GHz	Option 2B 110 dB
Step attenuator option to 50 GHz	Option 2C 90 dB

Specifications

PARAMETER	VALUE
Step attenuator option to 60 GHz	Option 2D 90 dB
Rack mount option	Option 1
Remote control	GPIB

Leveled output power 0.01 to less than 2 GHz class: +12 dBm

Leveled output power 2 to 20 GHz class: +10 dBm

Leveled output power greater than 20 to 40 GHz class: +2.5 dBm

Leveled output power greater than 40 to 50 GHz class: 0 dBm

Leveled output power greater than 50 to 65 GHz class: -2 dBm

Specifications

PARAMETER	VALUE
Output mode	CW
Related sweep model	69197A
Related signal model	69297A

Related sweep signal model: 69397A

Primary use: ultra low noise CW microwave/mmWave synthesis to 65 GHz

Notes

Specs from Anritsu/Wiltron 69A Series datasheet tables for 69x97A / 69097A (0.01–65 GHz CW). Series: 69000A CW, 69100A Sweep, 69200A Signal, 69300A Sweep/Signal. ConfirmVconnector and high-band leveled power on the calibration label.

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

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