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Data Sheet

August 13, 2026

ANRITSU

Anritsu 69297A Synthesized Signal Generator, 0.01 GHz to 65.0 GHz

Anritsu 69297A Synthesized Signal Generator 10 MHz to 65 GHz The Anritsu/Wiltron 69297A is a 69A Series synthesized signal generator covering 0.01 GHz to 65 GHz with external AM/FM/pulse modulation and step/power sweep. It is the signal member of the 69×97A family alongside 69097A (CW), 69197A (sweep), and 69397A (sweep/signal), providing the broadest coax-band modulated signal coverage in the 69A signal column. The Anritsu/Wiltron 69297A is a 69A Series synthesized signal generator covering 0.01 GHz to 65 GHz with external AM/FM/pulse modulation and step/power sweep. It is the signal member of the 69×97A family alongside 69097A (CW), 69197A (sweep), and 69397A (sweep/signal), providing the broadest coax-band modulated signal coverage in the 69A signal column.



MODEL

Anritsu 69297A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

69297A

LISTING

<https://aumictechlabs.com/products/69297a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 69297A Synthesized Signal Generator delivers signal generation across 0.01 GHz to 65.0 GHz, serving microwave systems, satellite communications, and defense electronics. This instrument combines ultra-low phase noise, flexible modulation, and precise frequency control to support CW stimulus, swept measurements, signal simulation, and component analysis in demanding test environments. Technical Specifications Frequency Range: 0.01 GHz to 65.0 GHz

Output Power: +17 dBm maximum; -125 dBm minimum Phase Noise: Typical SSB phase noise of -100 dBc/Hz at 10 kHz offset from 10 GHz Frequency Resolution: 1 kHz standard; 0.1 Hz optional (Option 11) Sweep Accuracy: ± 30 MHz or ± 2 MHz widths (whichever is lesser) for sweep speeds ≤ 50 MHz/ms; sweep time 30 ms to 99 seconds; sweep width 1 kHz to full range (0.1 Hz to full range with Option 11) Interface: GPIBKey Features Internal AM, FM, phase, and pulse modulation User-downloadable complex and arbitrary waveforms Internal arbitrary waveform generator for AM and FM modulation Doublet, triplet, and quadruplet pulse generation for RADAR blind spot testing Simultaneous synchronized modulations for complex signal scenarios Configurable pulse modulation via external control or internal pulse generator CW or step sweep modes with analog, step, manual, and digital sweep capabilities Linear or logarithmic sweep selection Excellent spurious signal performanceTypical Applications High-frequency microwave system testing Satellite communication signal generation Defense electronics measurement and validation Local oscillator replacement Network analysis and component characterization Automated Test Equipment (ATE) integrationCompatibility & Integration GPIB interface enables remote control and integration into automated measurement systems. Frequency stability references internal or external 10 MHz time base.

Features & description

From manufacturer datasheet

Features

- Synthesized signal coverage 0.01 to 65 GHz

Applications

- Modulated microwave/mmWave stimulus 0.01 to 65 GHz

69297A Characteristics / Specifications

PARAMETER	VALUE
Model	69297A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Signal Generator
Alias	69297A; Anritsu 69297A; Wiltron 69297A
Frequency range	0.01 GHz 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
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

PARAMETER	VALUE
Leveled output power greater than 50 to 65 GHz class	-2 dBm
Leveled output with step attenuator 0.01 to less than 2 GHz class	+10 dBm
Leveled output with step attenuator 2 to 20 GHz class	+8.5 dBm
Modulation	AM Ext, FM Ext, Pulse Ext (standard 69200A)
Analog sweep	not standard on 69200A class
Step sweep	standard
Output mode	CW, step sweep, and externally modulated signal
RF output connector	TypeVfemale
Remote control	GPIB
Dimensions	429 mmWx 133 mmHx 597 mmD Mass: less than or equal to 23 kg
Related CW model	69097A
Related sweep model	69197A
Related sweep signal model	69397A
Primary use	ultra low noise synthesized signal generation 0.01 to 65 GHz Notes Specs from Anritsu/Wiltron 69A Series datasheet tables for 69×97A / 69297A (0.01–65 GHz 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	69297A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Signal Generator
Specifications	
PARAMETER	VALUE
Alias	69297A; Anritsu 69297A; Wiltron 69297A
Frequency range	0.01 GHz 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

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
Leveled output with step attenuator 0.01 to less than 2 GHz class: +10 dBm
Leveled output with step attenuator 2 to 20 GHz class: +8.5 dBm

Specifications

PARAMETER	VALUE
Modulation	AM Ext, FM Ext, Pulse Ext (standard 69200A)
Analog sweep	not standard on 69200A class
Step sweep	standard

Specifications

PARAMETER	VALUE
Output mode	CW, step sweep, and externally modulated signal
RF output connector	TypeVfemale
Remote control	GPIO

Specifications

PARAMETER	VALUE
Dimensions	429 mmWx 133 mmHx 597 mmD Mass: less than or equal to 23 kg
Related CW model	69097A
Related sweep model	69197A

Related sweep signal model: 69397A
Primary use: ultra low noise synthesized signal generation 0.01 to 65 GHz
Notes
Specs from Anritsu/Wiltron 69A Series datasheet tables for 69x97A / 69297A (0.01-65 GHz 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

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.