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Data Sheet

August 13, 2026

ANRITSU

Anritsu 69277A Synthesized Signal Generator, 0.01 to 50.0 GHz

Anritsu 69277A Synthesized Signal Generator 10 MHz to 50 GHz The Anritsu/Wiltron 69277A is a 69A Series synthesized signal generator covering 0.01 GHz to 50 GHz with external AM/FM/pulse modulation and step/power sweep. It is the signal member of the 69×77A family alongside 69077A (CW), 69177A (sweep), and 69377A (sweep/signal). The Anritsu/Wiltron 69277A is a 69A Series synthesized signal generator covering 0.01 GHz to 50 GHz with external AM/FM/pulse modulation and step/power sweep. It is the signal member of the 69×77A family alongside 69077A (CW), 69177A (sweep), and 69377A (sweep/signal).



MODEL

Anritsu 69277A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

69277A

LISTING

<https://aumictechlabs.com/products/69277a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 69277A Synthesized Signal Generator delivers stable continuous wave output and rapid frequency switching across 0.01 to 50.0 GHz, serving automatic test equipment (ATE) systems, satellite component testing, and radar signal simulation. As a member of the Anritsu 69A Series, it combines precise frequency control with flexible modulation capabilities for demanding RF/microwave applications. Technical Specifications Frequency Range: 0.01 GHz to 50.0 GHz Frequency Resolution: 1 kHz (0.1 Hz with Option 11) Output Power: Maximum +17 dBm; minimum -125 dBm (69A series reference levels) Phase Noise: Typical single-sideband phase noise -100

dBc/Hz at 10 kHz offset from 10 GHz carrier Frequency Switching Time: <40 ms to within 1 kHz of final frequency; <15 ms + 1 ms/GHz step size in sweep mode (≤ 40 ms typical maximum) Step Sweep: 1 to 10,000 steps; step size 1 kHz to full frequency range; dwell time 1 ms to 99 seconds per step Internal Time Base Aging: $<2 \times 10^{-8}$ /day ($<5 \times 10^{-10}$ /day with Option 16) Internal Time Base Temperature Stability: $<2 \times 10^{-8}$ /°C over 0°C to 55°C ($<2 \times 10^{-10}$ /°C with Option 16) 10 MHz Reference Output: 0.5 V p-p into 50 Ω , AC coupled, rear panel BNC connector

Key Features

External 10 MHz reference input for synchronization Internal AM, FM, phase, and pulse modulation External AM and FM modulation inputs Seven internal modulating waveforms including Gaussian noise User-defined arbitrary waveforms supported Doublet, triplet, and quadruplet pulse generation for radar blind spot testing Simultaneous synchronized modulation for complex signal scenarios

Typical Applications

Automatic test equipment (ATE) integration Satellite component characterization Radar signal simulation and validation RF/microwave component testing across DC to millimeter-wave bands

Compatibility & Integration

Accepts external 10 MHz reference signals for phase-locked operation. Standard RF output connector accommodates integration into test systems and measurement setups.

Features & description

From manufacturer datasheet

Features

- Synthesized signal coverage 0.01 to 50 GHz

Applications

- Modulated microwave stimulus 0.01 to 50 GHz

69277A Characteristics / Specifications

PARAMETER	VALUE
Model	69277A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Signal Generator
Alias	69277A; Anritsu 69277A; Wiltron 69277A
Frequency range	0.01 GHz to 50 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 50 GHz	Option 2C 90 dB
Rack mount option	Option 1
Remote control	GPIB

PARAMETER	VALUE
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	+2.5 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 class
Related CW model	69077A
Related sweep model	69177A
Related sweep signal model	69377A
Primary use	ultra low noise synthesized signal generation 0.01 to 50 GHz Notes Specs from Anritsu/Wiltron 69A Series datasheet tables for 69×77A / 69277A (0.01–50 GHz Signal). Series: 69000A CW, 69100A Sweep, 69200A Signal, 69300A Sweep/Signal. Confirm connector and high-band leveled power on 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	69277A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Signal Generator
Specifications	
PARAMETER	VALUE
Alias	69277A; Anritsu 69277A; Wiltron 69277A
Frequency range	0.01 GHz to 50 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 50 GHz	Option 2C 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: +2.5 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 class
Related CW model	69077A

Specifications

PARAMETER	VALUE
Related sweep model	69177A
Related sweep signal model	69377A
Primary use	ultra low noise synthesized signal generation 0.01 to 50 GHz

Notes

Specs from Anritsu/Wiltron 69A Series datasheet tables for 69x77A / 69277A (0.01-50 GHz Signal). Series: 69000A CW, 69100A Sweep, 69200A Signal, 69300A Sweep/Signal. Confirm connector and high-band leveled power on 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.