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Data Sheet

August 13, 2026

ANRITSU

Anritsu 69287A Synthesized Signal Generator, 0.01 GHz to 60.0 GHz

Anritsu 69287A Synthesized Signal Generator 10 MHz to 60 GHz The Anritsu/Wiltron 69287A is a 69A Series synthesized signal generator covering 0.01 GHz to 60 GHz with external AM/FM/pulse modulation and step/power sweep. It is the signal member of the 69×87A family alongside 69087A (CW), 69187A (sweep), and 69387A (sweep/signal) for broadband modulated stimulus through V-band. The Anritsu/Wiltron 69287A is a 69A Series synthesized signal generator covering 0.01 GHz to 60 GHz with external AM/FM/pulse modulation and step/power sweep. It is the signal member of the 69×87A family alongside 69087A (CW), 69187A (sweep), and 69387A (sweep/signal) for broadband modulated stimulus through V-band.



MODEL

Anritsu 69287A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

69287A

LISTING

<https://aumictechlabs.com/products/69287a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 69287A is a synthesized signal generator delivering broad frequency coverage from 0.01 GHz to 60.0 GHz for RF and microwave research, military system development, and component verification. The instrument combines fast tuning with low harmonic distortion, enabling precise signal generation across multiple frequency bands. Technical Specifications Frequency Coverage 0.01 GHz to 60.0 GHz Output Power Maximum output power: +17 dBm typical for CW generators (69A series reference) Phase Noise Single-sideband phase noise: As

low as -136 dBc/Hz typical across the 69A series Related models demonstrate -100 dBc at 10 kHz offset from 10 GHz Harmonics Low harmonic distortion characteristic Tuning Speed Switching time: Less than 40 ms to within 1 kHz of final frequency Stepped phase-locked adjustments: Less than 15 ms + 1 ms/GHz step size, or less than 40 ms (whichever is less) Sweep speed: Less than 8.5 ms/step (when controlled by Wiltron 360B Vector Network Analyzer) Time Base Stability Aging: Less than 2×10^{-8} /day (Less than 5×10^{-10} /day with Option 16) Temperature stability: Less than 2×10^{-8} /°C over 0°C to 55°C (Less than 2×10^{-10} /°C with Option 16) Frequency resolution: 1 kHz (0.1 Hz with Option 11) Modulation Capabilities AM, FM, and PM modulation (internal) User-downloadable complex modulation Internal arbitrary waveform generator with 7 modulating waveforms including Gaussian noise Pulse modulation with external or internal pulse generator control Support for doublet, triplet, and quadruplet pulse sequences for RADAR blind spot testing Simultaneous synchronized modulation modes for complex signal scenariosKey Features Coherent phase-locked operation in CW and step sweep modes High-stability internal time-base option Flexible modulation architecture Fast frequency switching for dynamic test scenariosTypical Applications RF and microwave subsystem development Military system characterization Component and module verification RADAR signal simulation and testingCompatibility & Integration The 69287A integrates with external network analyzers and test platforms supporting phase-locked frequency control and complex modulation scenarios.

Features & description

From manufacturer datasheet

Features

- Synthesized signal coverage 0.01 to 60 GHz

Applications

- Modulated microwave/mmWave stimulus 0.01 to 60 GHz

69287A Characteristics / Specifications

PARAMETER	VALUE
Model	69287A
Manufacturer	Anritsu (Wilton 69A Series)
Instrument Type	Synthesized Signal Generator
Alias	69287A; Anritsu 69287A; Wiltron 69287A
Frequency range	0.01 GHz to 60 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	+2 dBm

PARAMETER	VALUE
Leveled output power greater than 50 to 60 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
Leveled output with step attenuator greater than 20 to 40 GHz class	0 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	69087A
Related sweep model	69187A
Related sweep signal model	69387A
Primary use	ultra low noise synthesized signal generation 0.01 to 60 GHz Notes Specs from Anritsu/Wiltron 69A Series datasheet tables for 69×87A / 69287A (0.01–60 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	
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PARAMETER	VALUE
Model	69287A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Signal Generator
Specifications	
PARAMETER	VALUE
Alias	69287A; Anritsu 69287A; Wiltron 69287A
Frequency range	0.01 GHz to 60 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: +2 dBm
Leveled output power greater than 50 to 60 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
Leveled output with step attenuator greater than 20 to 40 GHz class: 0 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	GPIOB

Specifications

PARAMETER	VALUE
Dimensions	429 mmWx 133 mmHx 597 mmD Mass: less than or equal to 23 kg
Related CW model	69087A
Related sweep model	69187A

Related sweep signal model: 69387A
Primary use: ultra low noise synthesized signal generation 0.01 to 60 GHz
Notes
Specs from Anritsu/Wiltron 69A Series datasheet tables for 69x87A / 69287A (0.01–60 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.