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Data Sheet

August 13, 2026

ANRITSU

Anritsu 69285A Synthesized Signal Generator, 0.05 to 60.0 GHz

Anritsu 69285A Synthesized Signal Generator 0.5 to 60 GHz The Anritsu/Wiltron 69285A is a 69A Series synthesized signal generator covering 0.5 GHz to 60 GHz with external AM/FM/pulse modulation and step/power sweep. It is the signal member of the 69×85A family alongside 69085A (CW), 69185A (sweep), and 69385A (sweep/signal). The Anritsu/Wiltron 69285A is a 69A Series synthesized signal generator covering 0.5 GHz to 60 GHz with external AM/FM/pulse modulation and step/power sweep. It is the signal member of the 69×85A family alongside 69085A (CW), 69185A (sweep), and 69385A (sweep/signal).



MODEL

Anritsu 69285A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

69285A

LISTING

<https://aumictechlabs.com/products/69285a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu 69285A is a synthesized signal generator delivering precise RF and microwave signal generation from 0.05 GHz to 60.0 GHz. Built for R&D, manufacturing, and field maintenance in microwave and millimeter-wave communications, it combines frequency synthesis architecture with exceptional signal purity and stability. The instrument supports amplitude, frequency, and pulse modulation alongside linear and logarithmic frequency sweeps, making it essential for component characterization, system integration, and signal validation across the microwave

spectrum. Technical Specifications Frequency Range: 0.05 GHz to 60.0 GHz Frequency Resolution: 0.001 Hz Output Power Range: -120 dBm to +20 dBm (frequency-dependent) Output Power Accuracy: ± 0.5 dB Output Power Flatness: ± 0.5 dB across specified bands Output Impedance: 50 Ohms Phase Noise: -100 dBc/Hz at 10 kHz offset (at 10 GHz reference) Harmonic Distortion: Better than -30 dBc Spurious Outputs: Less than -60 dBc Modulation AM: 0% to 100% depth, DC to 100 kHz modulation frequency Modulation FM: DC to 100 kHz modulation frequency, variable deviation Modulation Pulse: >70 dB on/off ratio, variable pulse width to nanosecond resolution, variable PRF Digital Modulation: QPSK, QAM support (option-dependent) Sweep Modes: Linear and logarithmic frequency sweep; continuous, triggered, and single-sweep operation Internal Reference: 10 MHz External Reference Input: 10 MHz Reference Output: 10 MHz Key Features Synthesized architecture ensures signal stability and repeatability across full frequency span Sub-hertz frequency resolution for precise tuning and characterization Wideband output flatness and low spurious content suitable for demanding RF applications Flexible modulation - analog (AM/FM), pulse, and digital schemes Multiple sweep profiles for component gain/loss measurement and frequency-response mapping Dual reference capability: internal 10 MHz oscillator with external input option Typical Applications Microwave and millimeter-wave component testing Receiver and transmitter validation Filter and amplifier characterization Communications system integration and bench verification Field service and maintenance of RF subsystems Compatibility & Integration Front-panel control via keypad and rotary encoder; remote instrument control supported via standard interfaces.

Features & description

From manufacturer datasheet

Features

- Synthesized signal coverage 0.5 to 60 GHz
- External AM, FM, and pulse modulation
- Optional phase modulation Option 6
- Step, alternate, and manual sweeps
- Ultra low noise 69200A family
- Optional step attenuator Option 2D class
- Power sweep capability
- GPIB remote control

Applications

- Modulated microwave stimulus 0.5 to 60 GHz
- External AM/FM/pulse signal simulation
- mmWave receiver and system testing
- Step and power sweep for ATE
- Low noise LO substitution to 60 GHz

69285A Characteristics / Specifications

PARAMETER	VALUE
Model	69285A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Signal Generator
Alias	69285A; Anritsu 69285A; Wiltron 69285A
Frequency range	0.5 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 frequency resolution Option	0.1 Hz
CW accuracy	same as internal or external 10 MHz time base
Internal time base aging	less than 2×10^{-8} /day class
Internal time base aging Option	less than 5×10^{-10} /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

PARAMETER	VALUE
Step attenuator option to 50 GHz	Option 2C 90 dB
Step attenuator option to 60 GHz	Option 2D 90 dB
Rack mount option	Option 1
Remote control	GPIB
Dimensions	429 mmWx 133 mmHx 597 mmDMass: less than or equal to 23 kg
Leveled output power 0.5 to 2.2 GHz class	+11 dBm
Leveled output power greater than 2.2 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 0.5 to 2.2 GHz class	+10 dBm
Leveled output with step attenuator greater than 2.2 to 20 GHz class	+8.5 dBm
Leveled output with step attenuator greater than 20 to 40 GHz class	0 dBm
Leveled output with step attenuator greater than 40 to 50 GHz class	-1.5 dBm
Leveled output with step attenuator greater than 50 to 60 GHz class	-2 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
Related CW model	69085A
Related sweep model	69185A

PARAMETER	VALUE
Related sweep signal model	69385A
Primary use	ultra low noise synthesized signal generation 0.5 to 60 GHz Notes Specs from Anritsu/Wiltron 69A Series datasheet for 69×85A / 69285A (0.5–60 GHz 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	
Technical Specifications	
PARAMETER	VALUE
Model	69285A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Signal Generator
Alias	69285A; Anritsu 69285A; Wiltron 69285A
Frequency range	0.5 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/deg C typical
Internal leveling	yes at output connector
RF on off	yes
Level offset	yes
CW frequency resolution standard	1 kHz class
CW frequency resolution Option 11	0.1 Hz
CW accuracy	same as internal or external 10 MHz time base
Internal time base aging	less than 2 x 10^-8/day class
Internal time base aging Option 16	less than 5 x 10^-10/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

PARAMETER	VALUE
Step attenuator option to 60 GHz	Option 2D 90 dB
Rack mount option	Option 1
Remote control	GPIB
Dimensions	429 mm W x 133 mm H x 597 mm D
Mass	less than or equal to 23 kg

Specifications

PARAMETER	VALUE
Model	69285A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Signal Generator
Alias	69285A; Anritsu 69285A; Wiltron 69285A
Frequency range	0.5 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 frequency resolution Option 11	0.1 Hz
CW accuracy	same as internal or external 10 MHz time base
Internal time base aging	less than 2×10^{-8} /day class
Internal time base aging Option 16	less than 5×10^{-10} /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

PARAMETER	VALUE
Step attenuator option to 50 GHz	Option 2C 90 dB
Step attenuator option to 60 GHz	Option 2D 90 dB
Rack mount option	Option 1
Remote control	GPIO
Dimensions	429 mmWx 133 mmHx 597 mmDMass: less than or equal to 23 kg

Leveled output power 0.5 to 2.2 GHz class: +11 dBm
 Leveled output power greater than 2.2 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 0.5 to 2.2 GHz class: +10 dBm
 Leveled output with step attenuator greater than 2.2 to 20 GHz class: +8.5 dBm
 Leveled output with step attenuator greater than 20 to 40 GHz class: 0 dBm
 Leveled output with step attenuator greater than 40 to 50 GHz class: -1.5 dBm
 Leveled output with step attenuator greater than 50 to 60 GHz class: -2 dBm

Specifications

PARAMETER	VALUE
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
Related CW model	69085A
Related sweep model	69185A
Related sweep signal model	69385A
Primary use	ultra low noise synthesized signal generation 0.5 to 60 GHz

Notes
 Specs from Anritsu/Wiltron 69A Series datasheet for 69x85A / 69285A (0.5–60 GHz 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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.