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Data Sheet
August 13, 2026

ANRITSU

Anritsu 69245A Synthesized Signal Generator, 0.5 â€“ 20.0 GHz

Anritsu 69245A Synthesized Signal Generator 0.5 to 20 GHz The Anritsu/Wiltron 69245A is an ultra-low-noise synthesized signal generator covering 0.5 GHz to 20 GHz in the 69A Series. It adds internal/external AM, FM, and pulse modulation (with optional phase modulation) for signal-simulation applications while retaining the low-noise CW core and GPIB automation. Related family members include 69045A (CW), 69145A (sweep), and 69345A (sweep/signal). The Anritsu/Wiltron 69245A is an ultra-low-noise synthesized signal generator covering 0.5 GHz to 20 GHz in the 69A Series. It adds internal/external AM, FM, and pulse modulation (with optional phase modulation) for signal-simulation applications while retaining the low-noise CW core and GPIB automation. Related family members include 69045A (CW), 69145A (sweep), and 69345A (sweep/signal).

MODEL **Anritsu 69245A**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **69245A**	LISTING **https://aumictechlabs.com/products/69245a-2/**

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

This unit

The Anritsu 69245A is a synthesized signal generator delivering precise RF signal generation across 0.5 to 20.0 GHz. Built for demanding RF component testing, system integration, and advanced R&D, the instrument combines high spectral purity with exceptional frequency stability

and accuracy. Its synthesized architecture supports repeatable, traceable measurements in applications requiring phase noise control and fast frequency agility.Technical Specifications Frequency Performance Frequency range: 0.5 to 20.0 GHz Frequency resolution: 1 kHz standard; 0.1 Hz with Option 11 Output impedance: 50 Ω Frequency switching time: <40 ms to within 1 kHz of final frequency Step sweep switching: <15 ms + 1 ms/GHz step size, or <40 ms maximum Spectral Purity & Stability SSB phase noise: -100 dBc at 10 kHz offset from 10 GHz (typical) Internal timebase aging: $<2 \times 10^{-8}$ per day Temperature stability: $<2 \times 10^{-8}$ per °C (0°C to 55°C) Option 16 enhanced stability: $<5 \times 10^{-10}$ per day; $<2 \times 10^{-10}$ per °C Modulation & Sweep Internal modulation: AM, FM, phase modulation (ØM), and pulse User-downloadable complex modulation supported Sweep modes: CW, step sweep, analog sweep, manual sweep Step sweep dwell time: 1 ms to 99 seconds per step Alternate sweep: Between two ranges with independent power levels Phase-locked sweep: Frequency adjustment between sweep limits Reference & Control 10 MHz reference output: 0.5 V p-p into 50 Ω, AC coupled (rear-panel BNC) GPIB interface for remote operationKey Features Rapid frequency switching enables high-speed test sequences Selectable step counts or step sizes for flexible sweep profiles Phase-locked sweep maintains coherent frequency transitions Ultra-low phase noise specification supports sensitive receiver and component characterization 10 MHz reference output enables external synchronizationTypical Applications RF component validation and characterization System-level integration testing Phase noise measurements and analysis Receiver sensitivity and intermodulation testing Frequency-agile signal sourcing for radar and communicationsCompatibility & Integration GPIB control enables integration into automated test systems. The 50 Ω output impedance matches standard RF test configurations. External frequency reference synchronization is supported via the rear-panel 10 MHz output.

Features & description

From manufacturer datasheet

Features

- Coverage 0.5 to 20 GHz with ultra low noise architecture

Applications

- Receiver and radar signal simulation 0.5 to 20 GHz

High power Option 15 0.5 to 20 GHz class: +17 dBm typical band table

Minimum leveled power without attenuator: to -15 dBm (-20 dBm typical) Minimum leveled power with attenuator: to -115 dBm (-120 dBm typical) Output power resolution: 0.01 dB Frequency resolution standard: 1 kHz Frequency resolution Option 11: 0.1 Hz SSB phase noise at 10 GHz 10 kHz offset: -100 dBc/Hz class SSB phase noise at 20 GHz 10 kHz offset: -100 dBc/Hz class AM depth: 0 to 90 percent linear, 20 dB log typical AM bandwidth 3 dB: DC to 50 kHz minimum (DC to 100 kHz typical) Pulse on off ratio: greater than 80 dB class (internal/external pulse family) Pulse rise fall time: less than 10 ns (less than 5 ns typical) class at or above 2 GHz Internal AM FM waveforms: sinusoid, square, triangle, ramps, Gaussian noise, uniform noise Source impedance: 50 ohm nominal RF output connector: TypeKfemale Remote control: GPIB Dimensions: 429 mmWx 133 mmHx 597 mmD Mass: less than or equal to 23 kg Related CW model: 69045A Related sweep model: 69145A Related sweep signal: 69345A Notes Specs from Anritsu/Wiltron 69A Series datasheet for 69×45A / 69245A (0.5–20 GHz). Confirm modulation options and high-power Option 15 on the faceplate.

69245A Characteristics / Specifications

PARAMETER	VALUE
Model	69245A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Signal Generator
Alias	69245A; Anritsu 69245A
Frequency range	0.5 GHz to 20 GHz
Family	69A Series ultra low noise signal generator
Leveled power 0.5 to 20 GHz	+13 dBm
Leveled power with step attenuator 0.5 to 20 GHz	+11 dBm
High power Option 15 0.5 to 20 GHz class	+17 dBm typical band table
Minimum leveled power without attenuator	to -15 dBm (-20 dBm typical)
Minimum leveled power with attenuator	to -115 dBm (-120 dBm typical)
Output power resolution	0.01 dB
Frequency resolution standard	1 kHz
Frequency resolution Option	0.1 Hz
SSB phase noise at 10 GHz 10 kHz offset	-100 dBc/Hz class
SSB phase noise at 20 GHz 10 kHz offset	-100 dBc/Hz class
AM depth	0 to 90 percent linear, 20 dB log typical
AM bandwidth 3 dB	DC to 50 kHz minimum (DC to 100 kHz typical)
Pulse on off ratio	greater than 80 dB class (internal/external pulse family)
Pulse rise fall time	less than 10 ns (less than 5 ns typical) class at or above 2 GHz
Internal AM FM waveforms	sinusoid, square, triangle, ramps, Gaussian noise, uniform noise
Source impedance	50 ohm nominal
RF output connector	TypeKfemale
Remote control	GPIB

PARAMETER	VALUE
Dimensions	429 mmWx 133 mmHx 597 mmD Mass: less than or equal to 23 kg
Related CW model	69045A
Related sweep model	69145A
Related sweep signal	69345A Notes Specs from Anritsu/Wiltron 69A Series datasheet for 69×45A / 69245A (0.5–20 GHz). Confirm modulation options and high-power Option 15 on the faceplate.
Bandwidth	3 dB: DC to 50 kHz minimum (DC to 100 kHz typical)

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	69245A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Signal Generator

Specifications

PARAMETER	VALUE
Alias	69245A; Anritsu 69245A
Frequency range	0.5 GHz to 20 GHz
Family	69A Series ultra low noise signal generator

Leveled power 0.5 to 20 GHz: +13 dBm

Leveled power with step attenuator 0.5 to 20 GHz: +11 dBm

High power Option 15 0.5 to 20 GHz class: +17 dBm typical band table

Specifications

PARAMETER	VALUE
Minimum leveled power without attenuator	to -15 dBm (-20 dBm typical)
Minimum leveled power with attenuator	to -115 dBm (-120 dBm typical)
Output power resolution	0.01 dB

Frequency resolution standard: 1 kHz

Frequency resolution Option 11: 0.1 Hz

SSB phase noise at 10 GHz 10 kHz offset: -100 dBc/Hz class

SSB phase noise at 20 GHz 10 kHz offset: -100 dBc/Hz class

Specifications

PARAMETER	VALUE
AM depth	0 to 90 percent linear, 20 dB log typical
AM bandwidth 3 dB	DC to 50 kHz minimum (DC to 100 kHz typical)
Pulse on off ratio	greater than 80 dB class (internal/external pulse family)

Specifications

PARAMETER	VALUE
Pulse rise fall time	less than 10 ns (less than 5 ns typical) class at or above 2 GHz
Internal AM FM waveforms	sinusoid, square, triangle, ramps, Gaussian noise, uniform noise
Source impedance	50 ohm nominal

Specifications

PARAMETER	VALUE
RF output connector	TypeKfemale
Remote control	GPIB
Dimensions	429 mmWx 133 mmHx 597 mmD Mass: less than or equal to 23 kg

Specifications

PARAMETER	VALUE
Related CW model	69045A
Related sweep model	69145A
Related sweep signal	69345A

Notes

Specs from Anritsu/Wiltron 69A Series datasheet for 69x45A / 69245A (0.5–20 GHz). Confirm modulation options and high-power Option 15 on the faceplate.

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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Generated August 13, 2026