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Data Sheet

August 13, 2026

ANRITSU

Anritsu 69247A Synthesized Signal Generator, 0.01â€" 20.0 GHz

Anritsu 69247A Synthesized Signal Generator 10 MHz to 20 GHz The Anritsu/Wiltron 69247A is an ultra-low-noise synthesized signal generator covering 0.01 GHz to 20 GHz in the 69A Series. It adds internal/external AM, FM, and pulse modulation (with optional Φ M) for signal-simulation applications while retaining the low-noise CW core and GPIB automation. The Anritsu/Wiltron 69247A is an ultra-low-noise synthesized signal generator covering 0.01 GHz to 20 GHz in the 69A Series. It adds internal/external AM, FM, and pulse modulation (with optional Φ M) for signal-simulation applications while retaining the low-noise CW core and GPIB automation.



MODEL

Anritsu 69247A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

69247A

LISTING

<https://aumictechlabs.com/products/69247a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu 69247A Synthesized Signal Generator delivers precise RF signal generation across 0.01–20.0 GHz, with optional extension to 26.5 GHz. This instrument functions as a local oscillator replacement, component analyzer, signal simulator, and ATE system source. Output power ranges from –125 dBm to +13.0 dBm typical, with frequency resolution down to 1 kHz standard or 0.1 Hz with Option 11. The 69247A combines low phase noise (–100 dBc SSB at 10 kHz offset from 10 GHz), fast frequency switching (<40 ms to 1 kHz settling), and flexible modulation in a single

platform. Technical Specifications Frequency Range: 0.01–20.0 GHz (base); 0.01–26.5 GHz with Option 15 Output Power: –125 dBm to +13.0 dBm typical; +15 dBm minimum above 2 GHz with Option 15B Frequency Resolution: 1 kHz standard; 0.1 Hz with Option 11 Phase Noise (SSB): –100 dBc at 10 kHz offset from 10 GHz; <–131 dBc/Hz typical at 1 GHz, 20 kHz offset Frequency Switching: <40 ms to within 1 kHz of final frequency; <8.5 ms/step with Option 14 (Wiltron 360B VNA compatibility) Sweep Capability: CW, step, alternate, manual, and power sweep modes Sweep Width: 1 kHz to full frequency range (0.1 Hz with Option 11) Dwell Time: 1 ms to 99 seconds per step Reference Interface: External 10 MHz input; 10 MHz output at 0.5 V p-p into 50 Ω Key Features Internal AM, FM, phase modulation (ϕ M), and pulse modulation with doublet, triplet, or quadruplet pulse support User-defined arbitrary waveform generation and complex modulation via Option 10 (includes Windows software and serial cable) Phase modulation option (Option 6) converts FM input/generator to FM/ ϕ M capability SCAN modulator (Option 20) for high-depth amplitude modulation simulation GPIB interface with SCPI programmability (Option 19, IEEE 488.2–1987 compliant) Low spurious signal levels throughout operating range Typical Applications Local oscillator replacement, RF component characterization, signal simulation, automated test equipment (ATE) integration, and network analyzer sourcing. Compatibility & Integration GPIB control enables integration into production test systems and bench-top measurement setups. External 10 MHz reference synchronization supports multi-instrument coherent operation.

Features & description

From manufacturer datasheet

Features

- Coverage 0.01 to 20 GHz with ultra-low-noise architecture
- Internal and external AM and FM generators
- Pulse modulation with internal pulse generator modes
- Optional phase modulation (Option 6)
- Optional complex/user-defined modulation (Option 10)
- Optional internal power meter (Option 8)
- High power Option 15 available in family tables
- GPIB remote control

Applications

- Receiver and radar signal simulation 10 MHz to 20 GHz
- AM/FM/pulse modulated microwave stimulus
- Component and system test with modulated carriers
- ATE racks needing modulation plus low phase noise
- LO substitution when modulation is off

High power Option 15 2 to 20 GHz: +17 dBm

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 ≥ 2 GHz Internal AM FM waveforms: sinusoid, square, triangle, ramps, Gaussian noise, uniform noise RF output connector: TypeKfemale Remote control: GPIB Dimensions: 429 mmWx 133 mmHx 597 mmDMass: less than or equal to 23 kg Related CW model: 69047A Related sweep model: 69147A Related sweep signal: 69347A Notes Specs from Anritsu/Wiltron 69A Series datasheet for 69×47A / 69247A (0.01–20 GHz). Confirm modulation options and high-power Option 15 on the faceplate.

69247A Characteristics / Specifications

PARAMETER	VALUE
Model	69247A
Manufacturer	Anritsu (Wilton 69A Series)
Instrument Type	Synthesized Signal Generator
Alias	69247A; Anritsu 69247A
Frequency range	0.01 GHz to 20 GHz
Family	69A Series ultra low noise signal generator
Leveled power 0.01 to less than 2 GHz	+13 dBm
Leveled power 2 to 20 GHz	+13 dBm
Leveled power with step attenuator 0.01 to less than 2 GHz	+11 dBm
Leveled power with step attenuator 2 to 20 GHz	+11 dBm
High power Option 15 0.01 to less than 2 GHz	+13 dBm
High power Option 15 2 to 20 GHz	+17 dBm
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 $\geq$ 2 GHz

PARAMETER	VALUE
Internal AM FM waveforms	sinusoid, square, triangle, ramps, Gaussian noise, uniform noise
RF output connector	TypeKfemale
Remote control	GPIB
Dimensions	429 mmWx 133 mmHx 597 mmDMass: less than or equal to 23 kg
Related CW model	69047A
Related sweep model	69147A
Related sweep signal	69347A Notes Specs from Anritsu/Wiltron 69A Series datasheet for 69×47A / 69247A (0.01–20 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
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 ≥2 GHz
Internal AM FM waveforms	sinusoid, square, triangle, ramps, Gaussian noise, uniform noise
RF output connector	Type K female
Remote control	GPIO
Dimensions	429 mm W x 133 mm H x 597 mm D
Mass	less than or equal to 23 kg
Related CW model	69047A
Related sweep model	69147A
Related sweep signal	69347A
Specifications	
PARAMETER	VALUE
Model	69247A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Signal Generator
Alias	69247A; Anritsu 69247A
Frequency range	0.01 GHz to 20 GHz
Family	69A Series ultra low noise signal generator
Levelled power 0.01 to less than 2 GHz: +13 dBm Levelled power 2 to 20 GHz: +13 dBm Levelled power with step attenuator 0.01 to less than 2 GHz: +11 dBm Levelled power with step attenuator 2 to 20 GHz: +11 dBm High power Option 15 0.01 to less than 2 GHz: +13 dBm High power Option 15 2 to 20 GHz: +17 dBm	
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)
Pulse rise/fall time	less than 10 ns (less than 5 ns typical) class ≥2 GHz
Internal AM FM waveforms	sinusoid, square, triangle, ramps, Gaussian noise, uniform noise
RF output connector	TypeKfemale
Remote control	GPIB
Dimensions	429 mmWx 133 mmHx 597 mmDMass: less than or equal to 23 kg
Related CW model	69047A
Related sweep model	69147A
Related sweep signal	69347A

Notes
Specs from Anritsu/Wiltron 69A Series datasheet for 69x47A / 69247A (0.01-20 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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.