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Data Sheet

August 13, 2026

ANRITSU

Anritsu 69047A Synthesized CW Generator, 10 MHz to 20 GHz

Anritsu 69047A Synthesized CW Generator 10 MHz to 20 GHz The Anritsu/Wiltron 69047A is an ultra-low-noise synthesized CW generator covering 0.01 GHz to 20 GHz in the 69A Series. It provides leveled CW RF with fine power resolution and GPIB automation for microwave LO, component, and system testing, as the CW member of the 69×47A family. The Anritsu/Wiltron 69047A is an ultra-low-noise synthesized CW generator covering 0.01 GHz to 20 GHz in the 69A Series. It provides leveled CW RF with fine power resolution and GPIB automation for microwave LO, component, and system testing, as the CW member of the 69×47A family.



MODEL

Anritsu 69047A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

69047A

LISTING

<https://aumictechlabs.com/products/69047a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 69047A is a synthesized continuous wave generator delivering stable RF signals from 10 MHz to 20 GHz with maximum output power of +13 dBm and phase noise performance of -107 dBc/Hz at 10 kHz offset. Built for precision RF applications, it combines ultra-low phase noise with flexible modulation AM, FM, pulse, and phase - plus arbitrary waveform capability and advanced sweep modes for laboratory testing, RF subsystem characterization, and automated test equipment integration. Technical Specifications Frequency Performance Frequency range: 10 MHz

to 20 GHz Frequency resolution: 100.0 mHz Phase-locked capability with high resolution Output Power Maximum output power: +13 dBm Minimum output power: -125 dBm Output power (step attenuator): +11.0 dBm Output power (electronic step attenuator): +3.0 dBm Output impedance: 50 Ohm Output level switching time: 20 ms Output accuracy: 2 dB Phase Noise SSB phase noise: -107 dBc at 10 kHz offset from 10 GHz Minimum SSB noise floor: -105 dBc/Hz Maximum SSB noise: -66 dBc/Hz Modulation Modes: AM, FM, Pulse, Phase, and user-downloaded arbitrary modulation FM sensitivity: ± 10 kHz per volt to ± 20 MHz per volt (locked and narrow modes); ± 100 kHz per volt to ± 100 MHz per volt (wide mode) FM deviation: ± 100 MHz (wide), ± 10 MHz (narrow), or lesser of ± 10 MHz or rate $\times 300$ (locked) Pulse modulation: Doublet, triplet, or quadruplet pulses; externally or internally driven TTL-compatible external pulse drive input

Key Features

Ultra-low phase noise across the full 10 MHz–20 GHz spectrum Wide dynamic range from -125 dBm to +13 dBm Flexible FM bandwidth: DC to 100 Hz (unlocked wide), DC to 500 kHz (unlocked narrow), 1 kHz to 500 kHz (locked) Advanced pulse modulation for radar blind-spot testing CW, step, alternate, analog, and power sweep modes Remote programmability via standard communication protocols

Typical Applications

RF component and subsystem validation Radar and microwave system testing Automated production test setups Phase noise characterization Modulation fidelity measurement

Compatibility & Integration

Standard 50 Ohm output, TTL-compatible external modulation inputs, and programmable interface enable straightforward integration into multi-instrument test systems and ATE platforms.

Features & description

From manufacturer datasheet

Features

- Synthesized CW coverage 0.01 to 20 GHz

Applications

- Ultra low noise CW local oscillator substitution to 20 GHz

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 CW frequency resolution standard: 1 kHz 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 Internal time base aging Option 16: less than 5×10^{-10} /day 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 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 AC power: less than or equal to 400 VA Related sweep model: 69147A Related signal generator: 69247A Related sweep signal: 69347A Related Brevison CW: 69047B Notes Specs from Anritsu/Wiltron 69A Series datasheet for 69×47A / 69047A (0.01–20 GHz CW). Confirm Option 15 before quoting +17 dBm leveled power.

69047A Characteristics / Specifications

PARAMETER	VALUE
Model	69047A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized CW Generator
Alias	69047A; Anritsu 69047A; Wiltron 69047A
Frequency range	0.01 GHz to 20 GHz
Family	69A Series ultra low noise
Output mode	CW
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
CW frequency resolution standard	1 kHz
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
Internal time base aging Option	less than 5×10^{-10} /day
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

PARAMETER	VALUE
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
AC power	less than or equal to 400 VA
Related sweep model	69147A
Related signal generator	69247A
Related sweep signal	69347A
Related Brevison CW	69047B Notes Specs from Anritsu/Wiltron 69A Series datasheet for 69×47A / 69047A (0.01–20 GHz CW). Confirm Option 15 before quoting +17 dBm leveled power.

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	69047A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized CW Generator
Specifications	
PARAMETER	VALUE
Alias	69047A; Anritsu 69047A; Wiltron 69047A
Frequency range	0.01 GHz to 20 GHz
Family	69A Series ultra low noise
Output mode: CW	
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	
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
Specifications	
PARAMETER	VALUE
CW frequency resolution standard	1 kHz
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	

Internal time base aging Option 16: less than 5 x 10⁻¹⁰/day

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
Source impedance	50 ohm nominal
RF output connector	TypeKfemale
Remote control	GPIB

Specifications

PARAMETER	VALUE
Dimensions	429 mmWx 133 mmHx 597 mmD Mass: less than or equal to 23 kg
AC power	less than or equal to 400 VA
Related sweep model	69147A

Specifications

PARAMETER	VALUE
Related signal generator	69247A
Related sweep signal	69347A
RelatedBreversion CW	69047B

Notes

Specs from Anritsu/Wiltron 69A Series datasheet for 69x47A / 69047A (0.01-20 GHz CW). Confirm Option 15 before quoting +17 dBm leveled power.

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.