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Data Sheet
August 13, 2026

ANRITSU

Anritsu 69077A Synthesized CW Generator, 0.01 â€“ 50 GHz

Anritsu 69077A Synthesized CW Generator 10 MHz to 50 GHz The Anritsu/Wiltron 69077A is an ultra-low-noise synthesized CW generator covering 0.01 GHz to 50 GHz in the 69A Series. It provides leveled CW RF/mmWave output for component, receiver, and system testing as the CW member of the 69×77A family. The Anritsu/Wiltron 69077A is an ultra-low-noise synthesized CW generator covering 0.01 GHz to 50 GHz in the 69A Series. It provides leveled CW RF/mmWave output for component, receiver, and system testing as the CW member of the 69×77A family.

MODEL **Anritsu 69077A**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **69077A**	LISTING **https://aumictechlabs.com/products/69077a-2/**

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

This unit

The Anritsu 69077A Synthesized CW Generator delivers precise, stable continuous-wave signals across 0.01 to 50 GHz. Engineered for telecommunications, radar, and defense test environments, this instrument combines low single-sideband phase noise, minimal spurious content, and controlled output power to serve as a local oscillator replacement and general-purpose RF/microwave signal source.Technical Specifications Frequency Range: 0.01 to 50 GHz with 1 kHz resolution (0.1 Hz with Option 11) Output Power: +12 dBm (0.01 to <2 GHz) +10 dBm (2 to 20 to ≤40 GHz) Guaranteed leveled power up to +10 dBm (maximum +17 dBm leveled) Minimum leveled

output: −15 dBm (−120 dBm with attenuator, −140 dBm with electronic attenuator) Power resolution: 0.01 dB logarithmic or 0.001 mV linear Frequency Stability: Internal time base: <2 × 10^{-8}/day aging (<5 × 10^{-10}/day with Option 16) Temperature stability: <2 × 10^{-8}/°C over 0 to 55°C (<2 × 10^{-10}/°C with Option 16) Phase Noise: Low SSB phase noise; typical −107 dBc/Hz at 10 kHz offset (10 GHz carrier) Spurious Performance: Harmonic and harmonic-related spurious <−50 dBc (500 MHz to 2.2 GHz); 50 MHz to 2 GHz)Key Features Twenty independent presettable CW frequencies (F0–F9, M0–M9) External 10 MHz reference input and 0.5 V p-p output (50 Ω, AC coupled) Optional step sweep with 1 MHz to full-range width, 1 to 10,000 steps, variable 1 ms to 99 seconds dwell Fast frequency switching: <40 ms to 1 kHz settling; <5 ms for <100 MHz stepsTypical Applications Local oscillator replacement, receiver/transmitter testing, component characterization, and system-level RF validation in defense and commercial telecommunications.Compatibility & Integration Part of the Anritsu 69000A Series. Accepts internal or external 10 MHz time base with optional high-stability oscillator upgrade (Option 16).

Features & description

From manufacturer datasheet

Features

• Synthesized CW coverage 0.01 to 50 GHz • Ultra low noise 69000A family architecture • Internal leveling at RF output connector • 0.01 dB output power resolution • Optional high band step attenuator options • GPIB remote control • Rack mount Option 1 • Related sweep/signal siblings in 69×77A band

Applications

• Broadband CW local oscillator substitution to 50 GHz • Microwave and mmWave component characterization • Low noise synthesizer source for ATE racks • Frequency response setups across RF to mmWave • Lab replacement for older Wiltron 68B/69A wideband CW sources

69077A Characteristics / Specifications

PARAMETER	VALUE
Model	69077A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized CW Generator
Alias	69077A; Anritsu 69077A; Wiltron 69077A
Frequency range	10 MHz to 50 GHz
Family	69A Series ultra low noise
Output mode	CW
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

PARAMETER	VALUE
Step attenuator option to 40 GHz	Option 2B 110 dB
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 0.01 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	+2.5 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
Leveled output with step attenuator greater than 40 to 50 GHz class	-1 dBm
Minimum leveled power without attenuator	to -15 dBm (-20 dBm typical)
Minimum leveled power with attenuator high band	to -105 dBm class
RF output connector	TypeVfemale
Related sweep model	69177A
Related signal model	69277A
Related sweep signal model	69377A
RelatedBrevision CW	69077B
Primary use	ultra low noise CW microwave/mmWave synthesis to 50 GHz Notes Specs from Anritsu/Wiltron 69A Series datasheet for 69×77A / 69077A

PARAMETER	VALUE
	(0.01–50 GHz CW). 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

Technical Specifications

PARAMETER	VALUE
Model	69077A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized CW Generator
Alias	69077A; Anritsu 69077A; Wiltron 69077A
Frequency range	10 MHz to 50 GHz
Family	69A Series ultra low noise
Output mode	CW
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

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 mm W x 133 mm H x 597 mm D
Mass	less than or equal to 23 kg

Specifications

PARAMETER	VALUE
Model	69077A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized CW Generator
Alias	69077A; Anritsu 69077A; Wiltron 69077A
Frequency range	10 MHz to 50 GHz
Family	69A Series ultra low noise
Output mode	CW
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 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

PARAMETER	VALUE
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
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 0.01 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: +2.5 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
Leveled output with step attenuator greater than 40 to 50 GHz class: -1 dBm

Specifications

PARAMETER	VALUE
Minimum leveled power without attenuator	to -15 dBm (-20 dBm typical)
Minimum leveled power with attenuator high band	to -105 dBm class
RF output connector	TypeVfemale
Related sweep model	69177A
Related signal model	69277A
Related sweep signal model	69377A
RelatedBrevision CW	69077B
Primary use	ultra low noise CW microwave/mmWave synthesis to 50 GHz

Notes
Specs from Anritsu/Wiltron 69A Series datasheet for 69x77A / 69077A (0.01–50 GHz CW). 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

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