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Data Sheet

August 13, 2026

ANRITSU

Anritsu 69045A Synthesized CW Generator, 500 MHz to 20GHz

Anritsu 69045A Synthesized CW Generator 500 MHz to 20 GHz The Anritsu/Wiltron 69045A is an ultra-low-noise synthesized CW signal generator covering 0.5 GHz to 20 GHz in the 69A Series. It provides leveled CW RF output with fine frequency resolution, high spectral purity, and GPIB automation for microwave component, receiver, and system testing. Related 69×45A family members add sweep or modulation depending on model digit. The Anritsu/Wiltron 69045A is an ultra-low-noise synthesized CW signal generator covering 0.5 GHz to 20 GHz in the 69A Series. It provides leveled CW RF output with fine frequency resolution, high spectral purity, and GPIB automation for microwave component, receiver, and system testing. Related 69×45A family members add sweep or modulation depending on model digit.



MODEL

Anritsu 69045A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

69045A

LISTING

<https://aumictechlabs.com/products/69045a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 69045A is a synthesized CW generator delivering clean, phase-locked signals from 500 MHz to 20 GHz. Built for RF component testing, receiver calibration, and system validation across industrial, research, and production environments, it combines front-panel control with full remote operation via GPIB. The instrument generates discrete CW frequencies and supports

stepped and alternate sweep modes with user-configurable dwell times and switching performance. Technical Specifications Frequency Coverage: 500 MHz to 20 GHz with 1 kHz resolution (0.1 Hz with Option 11). Signal Purity: Harmonic and harmonic-related spurious signals measure typically better than -50 dBc across 500 MHz to 2.2 GHz. Frequency Stability (Internal Timebase): Aging: Less than 2×10^{-8} per day (less than 2×10^{-10} per day with Option 16) Temperature: Less than 2×10^{-8} per °C over 0 °C to 55 °C (less than 2×10^{-10} per °C with Option 16) Output: 50 Ω impedance. External 10 MHz reference input and 0.5 V p-p reference output (AC coupled, 50 Ω) available via rear-panel BNC connectors. Sweep Performance: Step switching time is less than 15 ms + 1 ms/GHz step size or less than 40 ms, whichever is lower. Dwell time per step ranges from 1 ms to 99 seconds. Key Features CW signal generation with phase-locked step and alternate sweep modes Dual-range alternate sweep with independent power level control per range IEEE-488 GPIB remote control with local front-panel operation USB firmware update capability via Type A port Setup and results file save/load functionality Typical Applications RF component characterization and acceptance testing Receiver sensitivity and selectivity calibration System-level validation in production and development Compatibility & Integration Fully remote-controllable via IEEE-488 GPIB interface. Accepts external 10 MHz reference signals for synchronization with external frequency standards.

Features & description

From manufacturer datasheet

Features

- Synthesized CW coverage 0.5 to 20 GHz
- Ultra-low-noise 69000A family architecture
- Internal leveling at RF output connector
- 0.01 dB output power resolution
- 50 Ω source impedance
- Optional 110 dB step attenuator (Option 2A class)
- GPIB remote control
- Rack-mount option available

Applications

- Microwave CW local oscillator substitution
- Receiver and component characterization to 20 GHz
- Low-noise synthesizer source for ATE racks
- Frequency response and conversion-loss setups
- Lab replacement for older Wiltron 68B/69A sources

69045A Characteristics / Specifications

PARAMETER	VALUE
Model	69045A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized CW Generator
Alias	69045A; Anritsu 69045A; Wiltron 69045A
Frequency range	0.5 GHz to 20 GHz
Family	69A Series ultra low noise
Output mode	CW
Leveled output power 0.5 to 20 GHz	+13 dBm class (69×45A table)
Output power with step attenuator	+11 dBm class (69×45A table)
Output power resolution	0.01 dB
Source impedance	50 Ω nominal
Source SWR internal leveling below 2 GHz	<1.7 typical
Source SWR 2 to 20 GHz	<1.6 typical
Power level stability vs temperature	0.04 dB/°C typical
SSB phase noise 0.5 to 1.0 GHz at 10 kHz offset class	see 69xx5A tables
Residual FM 0.5 to 1.0 GHz	<10 Hz RMS class
Residual FM 1.0 to 2.2 GHz	<20 Hz RMS class
Residual FM 2.2 to 20 GHz	<40 Hz RMS class
Internal leveling	yes at output connector
RF on/off	yes
Level offset	yes
Step attenuator option	Option 2A 110 dB ($\leq$ 26.5 GHz models)
Rack mount option	Option 1
Related sweep model	69145A

PARAMETER	VALUE
Related signal generator	69245A
Related sweep signal	69345A
Connector class	precision microwave RF output
Remote control	GPIB
Primary use	ultra-low-noise CW microwave synthesis Notes Specs from Anritsu/Wiltron 69A Series datasheet tables for 69×45A / 69045A (0.5–20 GHz). Confirm installed options (attenuator, rack kit), exact max leveled power on the calibration label, and connector type on the unit.

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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RF on/off	yes
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Notes

Specs from Anritsu/Wiltron 69A Series datasheet tables for 69x45A / 69045A (0.5–20 GHz). Confirm installed options (attenuator, rack kit), exact max leveled power on the calibration label, and connector type on the unit.

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.