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Data Sheet
August 13, 2026

ANRITSU

Anritsu 69065A Synthesized CW Generator

Anritsu 69065A Synthesized CW Generator 0.5–40 GHz The Anritsu/Wiltron 69065A is an ultra-low-noise synthesized CW generator covering 0.5 GHz to 40 GHz in the 69A Series. It provides leveled CW RF onasingle coax output for LO replacement and high-purity stimulus from UHF/microwave into the 40 GHz band as the CW member of the 69×65A family. The Anritsu/Wiltron 69065A is an ultra-low-noise synthesized CW generator covering 0.5 GHz to 40 GHz in the 69A Series. It provides leveled CW RF onasingle coax output for LO replacement and high-purity stimulus from UHF/microwave into the 40 GHz band as the CW member of the 69×65A family.

MODEL **Anritsu 69065A**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **69065A**	LISTING **https://aumictechlabs.com/products/69065a-2/**

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

This unit

The Anritsu 69065A is a synthesized CW generator delivering stable, phase-locked signal output across 0.5 GHz to 40 GHz for microwave test and measurement applications. This instrument generates discrete CW frequencies with ultra-low single-sideband phase noise of -100 dBc at 10 kHz offset from a 10 GHz carrier, making it ideal for demanding component analysis and signal simulation tasks.Technical Specifications Frequency Range: 0.5 GHz to 40 GHz Frequency Resolution: 1 kHz standard (0.1 Hz with Option 11) Output Power: Leveled output up to +10 dBm or maximum specified power Phase Noise: -100 dBc SSB at 10 kHz offset (10 GHz carrier) Frequency

Stability: <2 × 10^{-8}/day aging; <2 × 10^{-8}/°C over 0°C to 55°C (Option 16 available for enhanced stability) Spurious Performance: Harmonic and harmonic-related signals <-50 dBc (500 MHz to 2.2 GHz), <-30 dBc (10 MHz to 50 MHz), 50 MHz to 2 GHz) Output Connector: BNC, 50 Ω impedance, rear panelKey Features Continuous Wave (CW): Direct synthesis of discrete frequencies with phase-locked stability Step Sweep Mode: Up to 10,000 programmable steps with 1 kHz to full-range step sizes; dwell time 1 ms to 99 seconds; switching time <15 ms + 1 ms/GHz or <40 ms maximum Alternate Sweep: Dual-range swept operation with independent power level control per range Manual Sweep: Phase-locked frequency adjustment with user-selectable step count or size Frequency Agility: GPIB-controlled storage and sequencing of up to 1,000 non-sequential frequencies Reference I/O: External 10 MHz reference input accepted; 0.5 V p-p rear-panel output into 50 Ω (AC coupled) Local and Remote Control: Front-panel operation or IEEE 488 GPIB command interfaceTypical Applications Component characterization, local oscillator duty, signal simulation, and multifrequency test sequences in microwave subsystem validation.

Features & description

From manufacturer datasheet

Features

• Coverage 0.5 to 40 GHz single coax • Ultra-low-noise 69000A architecture • Internal leveling with 0.01 dB resolution • Optional 0.1 Hz resolution and oven time base • Optional step attenuator Option 2B class • GPIB remote control • Related sweep/signal siblings 69×65A • K/V connector class per installed RF head

Applications

• CW LO substitution 0.5 to 40 GHz • Microwave and mmWave component characterization • ATE broadband synthesizer source • Converter and mixer LO applications • Family upgrade within 69A CW column

69065A Characteristics / Specifications

PARAMETER	VALUE
Anritsu 69065A Synthesized CW Generator 0.	40 GHz Overview The Anritsu/Wiltron 69065A is an ultra-low-noise synthesized CW generator covering 0.5 GHz to 40 GHz in the 69A Series. It provides leveled CW RF onasingle coax output for LO replacement and high-purity stimulus from UHF/microwave into the 40 GHz band as the CW member of the 69×65A family.
Model	69065A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized CW Generator
Alias	69065A; Anritsu 69065A
Frequency range	0.5 GHz to 40 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

PARAMETER	VALUE
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
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 0.5 to 2.2 GHz class	+13 dBm
Leveled output power greater than 2.2 to 20 GHz class	+13 dBm
Leveled output power greater than 20 to 40 GHz class	+6 dBm
Leveled output with step attenuator 0.5 to 2.2 GHz class	+11 dBm
Leveled output with step attenuator greater than 2.2 to 20 GHz class	+11 dBm
Leveled output with step attenuator greater than 20 to 40 GHz class	+3 dBm
Minimum leveled power without attenuator	to -15 dBm (-20 dBm typical)
Minimum leveled power with attenuator	to -115 dBm (-120 dBm typical)
SSB phase noise at 10 GHz 10 kHz offset	-100 dBc/Hz class
SSB phase noise at 40 GHz 10 kHz offset	-88 dBc/Hz class
Related sweep model	69165A
Related signal generator	69265A

PARAMETER	VALUE
Related sweep signal	69365A Notes Specs from Anritsu/Wiltron 69A Series datasheet for 69×65A / 69065A (0.5–40 GHz CW). Confirm options and leveled power 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

Technical Specifications

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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

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Rack mount option	Option 1
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Dimensions	429 mmWx 133 mmHx 597 mmDMass: less than or equal to 23 kg

Leveled output power 0.5 to 2.2 GHz class: +13 dBm
Leveled output power greater than 2.2 to 20 GHz class: +13 dBm
Leveled output power greater than 20 to 40 GHz class: +6 dBm
Leveled output with step attenuator 0.5 to 2.2 GHz class: +11 dBm
Leveled output with step attenuator greater than 2.2 to 20 GHz class: +11 dBm
Leveled output with step attenuator greater than 20 to 40 GHz class: +3 dBm
Minimum leveled power without attenuator: to -15 dBm (-20 dBm typical)
Minimum leveled power with attenuator: to -115 dBm (-120 dBm typical)
SSB phase noise at 10 GHz 10 kHz offset: -100 dBc/Hz class
SSB phase noise at 40 GHz 10 kHz offset: -88 dBc/Hz class

Specifications

PARAMETER	VALUE
Related sweep model	69165A
Related signal generator	69265A
Related sweep signal	69365A

Notes
Specs from Anritsu/Wiltron 69A Series datasheet for 69x65A / 69065A (0.5–40 GHz CW). Confirm options and leveled power 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

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