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Data Sheet

August 13, 2026

ANRITSU

Anritsu 69017B Ultra Low Noise Synthesized CW Generator, 0.01 – 8.4 GHz

Anritsu 69017B Ultra Low Noise Synthesized CW Generator 0.01–8.4 GHz The Anritsu 69017B is an ultra-low-noise synthesized CW generator covering 0.01 GHz to 8.4 GHz in the 69000B family. It delivers high leveled output (to +17 dBm class with Option 15) with ultra-low SSB phase noise for LO duty, optical clock references, and high-bit-rate digital systems as the CW member of the 69×17B band. The Anritsu 69017B is an ultra-low-noise synthesized CW generator covering 0.01 GHz to 8.4 GHz in the 69000B family. It delivers high leveled output (to +17 dBm class with Option 15) with ultra-low SSB phase noise for LO duty, optical clock references, and high-bit-rate digital systems as the CW member of the 69×17B band.



MODEL

Anritsu 69017B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

69017B

LISTING

<https://aumictechlabs.com/products/69017b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 69017B is an ultra-low noise synthesized CW (Continuous Wave) generator engineered for high-precision RF testing across 0.01 GHz to 8.4 GHz. It delivers exceptional signal purity and frequency stability, enabling accurate characterization of RF modules and systems. The instrument combines precise frequency control with wide dynamic range performance, making it suitable for laboratory and field measurement environments where phase noise and spurious suppression are critical. Technical Specifications Frequency Range: 0.01 GHz to 8.4 GHz

Operation Mode: CW (Continuous Wave) only Dynamic Range: High dynamic range for sensitive component testing Phase Noise Performance: Ultra-low noise design optimized for demanding metrology applicationsKey Features Precision frequency control with wide tuning range Ultra-low phase noise and spurious signal suppression High dynamic range output capability GPIB remote control interface for automated test system integration Front-panel manual operation and display Precision amplitude control for flexible output configurationTypical Applications RF module and system characterization High-precision frequency reference testing Receiver and filter evaluation in demanding measurement scenarios Automated RF testing environments via GPIB controlCompatibility & Integration GPIB interface enables direct integration into automated measurement systems and provides remote programmability for unattended operation and data logging in production and laboratory settings.

Features & description

From manufacturer datasheet

Features

- Coverage 0.01 to 8.4 GHz • Ultra-low-noise 69B CW architecture • +17 dBm guaranteed leveled power class with Option 15 • Digital frequency and power sweep • Optional deep step/electronic attenuator dynamic range • Optional 0.1 Hz resolution and oven time base • Fast switching for ATE • GPIB remote control

Applications

- CW LO substitution 0.01 to 8.4 GHz • Low jitter clock and optical reference applications • ATE synthesizer racks • High bit rate digital modulation LO sources • Upgradeable 69B platform

High power Option 15 0.01 to 8.4 GHz: +17 dBm class

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 Internal time base vs temperature: less than 2×10^{-8} /degCover 0 to 55 C Minimum leveled power without attenuator: to -20 dBm Minimum leveled power with attenuator: to -120 dBm SSB phase noise at 10 GHz 10 kHz offset: ultra low 69B class Switching time without attenuator change: less than 5 ms typical List sweep points: up to 2000 non sequential frequency/power sets per table Preset CW frequencies: 20 Remote control: GPIB Package height class: 13.3 cm rack family Dimensions: 133 mmHx 429 mmWx 597 mmDRF output connector: TypeKfemale Related signal model: 69117B Related high performance: 69317B Related 68C CW: 68017C Spurious signals class: below -60 dBc Oven reference Option 16 aging: less than 5×10^{-10} /day Notes Specs from Anritsu 69000B/68000C Series datasheet for 69x17B / 69017B (0.01–8.4 GHz CW). Confirm Option 15 before quoting +17 dBm leveled power.

69017B Characteristics / Specifications

PARAMETER	VALUE
Anritsu 69017B Ultra Low Noise Synthesized CW Generator 0.	8.4 GHz Overview The Anritsu 69017B is an ultra-low-noise synthesized CW generator covering 0.01 GHz to 8.4 GHz in the 69000B family. It delivers high leveled output (to +17 dBm class with Option 15) with ultra-low SSB phase noise for LO duty, optical clock references, and high-bit-rate digital systems as the CW member of the 69×17B band.
Model	69017B
Manufacturer	Anritsu
Instrument Type	Ultra Low Noise Synthesized CW Generator
Alias	69017B; Anritsu 69017B
Frequency range	0.01 GHz to 8.4 GHz
Family	69000B synthesizers
Leveled power 0.01 to 8.4 GHz	+13 dBm
Leveled power with step attenuator 0.01 to 8.4 GHz	+11 dBm
Leveled power with electronic attenuator 0.01 to 8.4 GHz	+9 dBm
High power Option 15 0.01 to 8.4 GHz	+17 dBm class
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
Internal time base vs temperature	less than 2×10^{-8} /degCover 0 to 55 C
Minimum leveled power without attenuator	to -20 dBm
Minimum leveled power with attenuator	to -120 dBm
SSB phase noise at 10 GHz 10 kHz offset	ultra low 69B class

PARAMETER	VALUE
Switching time without attenuator change	less than 5 ms typical
List sweep points	up to 2000 non sequential frequency/power sets per table
Preset CW frequencies	20
Remote control	GPIB
Package height class	13.3 cm rack family
Dimensions	133 mmHx 429 mmWx 597 mmDRF output connector: TypeKfemale
Related signal model	69117B
Related high performance	69317B
Related 68C CW	68017C
Spurious signals class	below -60 dBc
Oven reference Option 16 aging	less than 5×10^{-10} /day Notes Specs from Anritsu 69000B/68000C Series datasheet for 69×17B / 69017B (0.01–8.4 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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Switching time without attenuator change	less than 5 ms typical
List sweep points	up to 2000 non sequential frequency/power sets per table
Preset CW frequencies	20
Remote control	GPiB
Package height class	13.3 cm rack family
Dimensions	133 mm H x 429 mm W x 597 mm D
RF output connector	Type K female
Related signal model	69117B
Related high performance	69317B
Related 68C CW	68017C
Spurious signals class	below -60 dBc
Oven reference Option 16 aging	less than 5 x 10^-10/day
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PARAMETER	VALUE
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Instrument Type	Ultra Low Noise Synthesized CW Generator
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Specifications	

PARAMETER	VALUE
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CW frequency resolution Option 11	0.1 Hz
CW accuracy	same as internal or external 10 MHz time base
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Minimum leveled power with attenuator	to -120 dBm

SSB phase noise at 10 GHz 10 kHz offset: ultra low 69B class

Specifications

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Notes

Specs from Anritsu 69000B/68000C Series datasheet for 69x17B / 69017B (0.01–8.4 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.