

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 1, 2026

ANRITSU

Anritsu 68047B Synthesized CW Generator

Anritsu 68047B Synthesized CW Generator, 10 MHz to 20 GHz The Anritsu (Wiltron) 68047B is a microprocessor-based synthesized CW signal generator covering 10 MHz to 20 GHz. It is a member of the 680XXB synthesized CW generator family, providing phase-locked discrete CW frequencies with front-panel LCD control and full IEEE-488 (GPIB) remote programming. Although often listed generically as a "signal generator," the 68047B is the CW-only member of the band; the 68147B is the related sweep/signal-generator sibling with analog sweep capability. The Anritsu (Wiltron) 68047B is a microprocessor-based synthesized CW signal generator covering 10 MHz to 20 GHz. It is a member of the 680XXB synthesized CW generator family, providing phase-locked discrete CW frequencies with front-panel LCD control and full IEEE-488 (GPIB) remote programming. Although often listed generically as a "signal generator," the 68047B is the CW-only member of the band; the 68147B is the related sweep/signal-generator sibling with analog sweep capability. RF and microwave CW stimulus for component and system test from 10 MHz through 20 GHz; LO substitution; general-purpose synthesized source for R&D and production; automated GPIB test racks.

No photo

MODEL

Anritsu 68047B

CALIBRATION

**N/A — off-catalog
OEM datasheet**

CONDITION

**See OEM
documentation**

STATUS

**Not listed on
Aumictech
inventory**

RFQ / SKU

68047B

LISTING

**Off-catalog — OEM dat
asheet only**

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

Features & description

From manufacturer datasheet

Features

- Frequency range 10 MHz to 20 GHz
- Synthesized CW operation with high-resolution phase lock
- Standard frequency resolution 1 kHz; Option 11 for 0.1 Hz class resolution
- Leveled output power to +13 dBm across the band without step attenuator (6XX47 class)
- With step attenuator: about +11 dBm class
- Optional high-power output (Option 15) and high-stability oven timebase (Option 16)
- Front-panel LCD with rotary knob and keypad
- IEEE-488 / GPIB remote control of all functions except power on/standby

68047B Characteristics / Specifications

PARAMETER	VALUE
Model	68047B
Manufacturer	Anritsu / Wiltron
Series	680XXB Synthesized CW Generators
Instrument Type	Synthesized CW microwave signal generator
Frequency Range	10 MHz to 20 GHz
Frequency Resolution	1 kHz standard; 0.1 Hz with Option 11
With step attenuator	about +11 dBm Spectral Purity (680XXB family examples at carrier)
SSB phase noise examples	about -80 dBc/Hz at 2 GHz / 10 kHz offset; about -66 dBc/Hz at 20 GHz / 10 kHz offset (datasheet tables) General
Dimensions	about 5.25 inHx 16.875 inWx 23.5 inDWeight: about 50 lb class
Remote Interface	IEEE-488 (GPIB)
Display	Dot-matrix LCD Common Options 11 Fine frequency resolution; 15 High power; 16 High-stability ovenized crystal timebase; step attenuator; rack mount Family Context 68047B: 10 MHz to 20 GHz CW 68059B: 10 MHz to 26.5 GHz CW 68147B: sweep / signal generator sibling, same band

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

Specifications

PARAMETER	VALUE
Dimensions	about 5.25 in H x 16.875 in W x 23.5 in D
Weight	about 50 lb class
Remote Interface	IEEE-488 (GPIB)
Display	Dot-matrix LCD

Specifications

PARAMETER	VALUE
Model	68047B
Manufacturer	Anritsu / Wiltron
Series	680XXB Synthesized CW Generators
Instrument Type	Synthesized CW microwave signal generator
Frequency Range	10 MHz to 20 GHz
Frequency Resolution	1 kHz standard; 0.1 Hz with Option 11

RF Output Power (standard, without step attenuator) – 6XX47 class

0.01 to 20 GHz: +13 dBm

With step attenuator: about +11 dBm

Spectral Purity (680XXB family examples at carrier)

SSB phase noise examples: about -80 dBc/Hz at 2 GHz / 10 kHz offset; about -66 dBc/Hz at 20 GHz / 10 kHz offset (datasheet tables)

General

Specifications

PARAMETER	VALUE
Dimensions	about 5.25 inHx 16.875 inWx 23.5 inDWeight: about 50 lb class
Remote Interface	IEEE-488 (GPIB)
Display	Dot-matrix LCD

Common Options

11 Fine frequency resolution; 15 High power; 16 High-stability ovenized crystal timebase; step attenuator; rack mount

Family Context

68047B: 10 MHz to 20 GHz CW

68059B: 10 MHz to 26.5 GHz CW

68147B: sweep / signal generator sibling, same band

Standard Operating Conditions

Allow warm-up for frequency accuracy, especially with Option 16 oven. Use appropriate coax adapters for the installed RF connector. Do not exceed leveled power into sensitive receivers without attenuation.

Operational Notes

Correct spelling is Anritsu (user "Anrtisu"). User listing as "Signal Generator" refers to this CW family model-not the 68147B sweep unit unless that model is confirmed on the faceplate. Confirm Option 15 before quoting high-power levels.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: N/A — off-catalog OEM datasheet. See OEM documentation · Not listed on Aumictech inventory.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 1, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.