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Data Sheet

August 1, 2026

ANRTISU

Anritsu 68045B Synthesized CW Generator, 0.5 – 20.0 GHz

Anritsu 68045B Synthesized CW Generator, 0.5 to 20.0 GHz The Anritsu (Wiltron) 68045B is a microprocessor-based synthesized CW signal generator covering 500 MHz (0.5 GHz) to 20.0 GHz. It belongs to the 680XXB synthesized CW generator family, providing phase-locked discrete CW frequencies with front-panel LCD control and full IEEE-488 (GPIB) remote programming. Compared with the 68053B (2-26.5 GHz), the 68045B extends coverage down to 500 MHz while stopping at 20 GHz. Microwave and RF CW stimulus for component and system test from UHF through K-band; LO substitution; general-purpose 0.5 to 20 GHz synthesized source; automated GPIB test racks. The Anritsu (Wiltron) 68045B is a microprocessor-based synthesized CW signal generator covering 500 MHz (0.5 GHz) to 20.0 GHz. It belongs to the 680XXB synthesized CW generator family, providing phase-locked discrete CW frequencies with front-panel LCD control and full IEEE-488 (GPIB) remote programming. Compared with the 68053B (2-26.5 GHz), the 68045B extends coverage down to 500 MHz while stopping at 20 GHz. Microwave and RF CW stimulus for component and system test from UHF through K-band; LO substitution; general-purpose 0.5 to 20 GHz synthesized source; automated GPIB test racks.

No photo

MODEL

Anritsu 68045B

CALIBRATION

**N/A — off-catalog
OEM datasheet**

CONDITION

**See OEM
documentation**

STATUS

**Not listed on
Aumictech
inventory**

RFQ / SKU

68045B

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 500 MHz to 20.0 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 0.5 to 20 GHz (standard, without step attenuator) • Optional high-power output (Option 15) and high-stability oven timebase (Option 16) • Optional step attenuator • Front-panel LCD with rotary knob and keypad • IEEE-488 / GPIB remote control of all functions except power on/standby

68045B Characteristics / Specifications

PARAMETER	VALUE
Model	68045B
Manufacturer	Anritsu / Wiltron
Series	680XXB Synthesized CW Generators
Instrument Type	Synthesized CW microwave signal generator
Frequency Range	0.5 GHz (500 MHz) to 20.0 GHz
Frequency Resolution	1 kHz standard; 0.1 Hz with Option 11 RF Output Power (standard, without step attenuator) 0.5 to 20 GHz (6XX45 family): +13 dBm
With step attenuator	about +11 dBm
With Option 15 (high power)	about +13 dBm (0.5 to 2.2 GHz class); +17 dBm (above 2.2 to 20 GHz) per family high-power tables Spectral Purity (680XXB family examples) SSB phase noise follows 680XXB tables (carrier-dependent); see 68B/69A series datasheet for dBc/Hz vs offset
Form Factor	680XXB rack/bench chassis (approximately 5.25 in height 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 68037B: 2 to 20 GHz CW 68045B: 0.5 to 20 GHz CW 68047B: 10 MHz to 20 GHz CW 68053B: 2 to 26.5 GHz CW 68145B: sweep generator sibling, same 0.5-20 GHz 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

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Series	680XXB Synthesized CW Generators
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Frequency Resolution	1 kHz standard; 0.1 Hz with Option 11

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With step attenuator: about +11 dBm
With Option 15 (high power): about +13 dBm (0.5 to 2.2 GHz class); +17 dBm (above 2.2 to 20 GHz) per family high-power tables

Spectral Purity (680XXB family examples)
SSB phase noise follows 680XXB tables (carrier-dependent); see 68B/69A series datasheet for dBc/Hz vs offset

General

Specifications

PARAMETER	VALUE
Form Factor	680XXB rack/bench chassis (approximately 5.25 in height 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
68037B: 2 to 20 GHz CW
68045B: 0.5 to 20 GHz CW
68047B: 10 MHz to 20 GHz CW
68053B: 2 to 26.5 GHz CW
68145B: sweep generator sibling, same 0.5-20 GHz band

Standard Operating Conditions
Allow warm-up for frequency accuracy, especially with Option 16 oven. Below about 2 GHz, observe family notes on FM sensitivity scaling for 500 MHz units when modulation options apply to related models.

Operational Notes
Correct spelling is Anritsu (user "Anrtisu"). Confirm Option 15 before quoting high-power levels. CW-only 68045B does not include analog sweep-use 68145B for sweep.

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

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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.