

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

ANRITSU

Anritsu 68277B Synthesized Signal Generator, 0.01 to 50.0 GHz

Anritsu 68277B Synthesized Signal Generator 10 MHz to 50 GHz The Anritsu 68277B is a synthesized signal generator covering 10 MHz to 50 GHz in the 682XXB/683XXB family. It provides CW, sweep, and AM/FM/pulse modulation with banded leveled output and IEEE-488 GPIB control. The Anritsu 68277B is a synthesized signal generator covering 10 MHz to 50 GHz in the 682XXB/683XXB family. It provides CW, sweep, and AM/FM/pulse modulation with banded leveled output and IEEE-488 GPIB control.



MODEL

Anritsu 68277B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

68277B

LISTING

<https://aumictechlabs.com/products/68277b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 68277B is a synthesized signal generator delivering RF outputs across 0.01 to 50.0 GHz. It generates accurate, stable signals for RF system development, component verification, and communications equipment testing in laboratory and automated test environments. Engineers deploy this instrument for precise signal generation across demanding RF applications requiring flexible modulation and sweep control throughout its operational band.

Features & description

From manufacturer datasheet

Features

- Frequency coverage 10 MHz to 50 GHz • Synthesized phase-lock with high resolution • Standard 1 kHz resolution; Option 11 for 0.1 Hz • Banded leveled output per family power tables • Optional Option 15 high power and Option 16 oven • IEEE-488 GPIB remote programming

Applications

- Microwave stimulus across 10 MHz to 50 GHz • ATE automated GPIB source applications • Component and receiver testing in band • LO substitution and swept measurements

68277B Characteristics / Specifications

PARAMETER	VALUE
Model	68277B
Manufacturer	Anritsu / Wiltron
Instrument Type	Synthesized Signal Generator
Alias	68277B; Anritsu 68277B
Frequency range	10 MHz to 50 GHz
Family	682XXB Synthesized Signal Generators
CW frequency resolution standard	1 kHz
CW frequency resolution Option	0.1 Hz
Leveled output 0.01 to less than 2 GHz	+12 dBm
Leveled output 2 to 20 GHz	+10 dBm
Leveled output greater than 20 to 40 GHz	+2.5 dBm
Leveled output greater than 40 to 50 GHz	+2.5 dBm
Leveled with step attenuator 0.01 to less than 2 GHz	+10 dBm
Leveled with step attenuator 2 to 20 GHz	+8.5 dBm
Leveled with step attenuator greater than 20 to 40 GHz	0 dBm
Leveled with step attenuator greater than 40 to 50 GHz	-1 dBm
Output power resolution	0.01 dB
Internal time base aging	less than 2×10^{-8} /day
Internal time base aging Option	less than 5×10^{-10} /day
Remote control	IEEE 488 GPIB
Display	Dot matrix LCD
Dimensions	about 5.25 inHx 16.875 inWx 23.5 inDWeight: about 50 lb
AC power	90 to 132 or 180 to 264 Vac
Power consumption	about 400 VA

PARAMETER	VALUE
Harmonics family typical	-50 to -60 dBc
Nonharmonic spurious typical	-60 dBc
SSB phase noise 68XXXB at 6 GHz 10 kHz class	about -86 to -88 dBc/Hz
Related CW model	68077B
Related sweep model	68177B
Related sweep signal	68377B Notes Power rows from Anritsu 68000B/69000A El Toro datasheet tables for 68277B (10 MHz to 50 GHz). Confirm Option 11/15/16, attenuator, and RF connector 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	
Specifications	
PARAMETER	VALUE
Output power resolution	0.01 dB
Internal time base aging	less than 2 x 10^-8/day
Internal time base aging Option 16	less than 5 x 10^-10/day
Remote control	IEEE 488 GPIB
Display	Dot matrix LCD
Dimensions	about 5.25 in H x 16.875 in W x 23.5 in D
Weight	about 50 lb
AC power	90 to 132 or 180 to 264 Vac
Power consumption	about 400 VA
Harmonics family typical	-50 to -60 dBc
Nonharmonic spurious typical	-60 dBc
Specifications	
PARAMETER	VALUE
Model	68277B
Manufacturer	Anritsu / Wiltron
Instrument Type	Synthesized Signal Generator
Alias	68277B; Anritsu 68277B
Frequency range	10 MHz to 50 GHz
Family	682XXB Synthesized Signal Generators
CW frequency resolution standard	1 kHz
CW frequency resolution Option 11	0.1 Hz
Levelled output 0.01 to less than 2 GHz: +12 dBm	
Levelled output 2 to 20 GHz: +10 dBm	
Levelled output greater than 20 to 40 GHz: +2.5 dBm	
Levelled output greater than 40 to 50 GHz: +2.5 dBm	
Levelled with step attenuator 0.01 to less than 2 GHz: +10 dBm	
Levelled with step attenuator 2 to 20 GHz: +8.5 dBm	
Levelled with step attenuator greater than 20 to 40 GHz: 0 dBm	
Levelled with step attenuator greater than 40 to 50 GHz: -1 dBm	

Specifications

PARAMETER	VALUE
Output power resolution	0.01 dB
Internal time base aging	less than 2×10^{-8} /day
Internal time base aging Option 16	less than 5×10^{-10} /day
Remote control	IEEE 488 GPIB
Display	Dot matrix LCD
Dimensions	about 5.25 inHx 16.875 inWx 23.5 inDWeight: about 50 lb
AC power	90 to 132 or 180 to 264 Vac
Power consumption	about 400 VA
Harmonics family typical	-50 to -60 dBc
Nonharmonic spurious typical	-60 dBc

SSB phase noise 68XXXB at 6 GHz 10 kHz class: about -86 to -88 dBc/Hz

Specifications

PARAMETER	VALUE
Related CW model	68077B
Related sweep model	68177B
Related sweep signal	68377B

Notes

Power rows from Anritsu 68000B/69000A El Toro datasheet tables for 68277B (10 MHz to 50 GHz). Confirm Option 11/15/16, attenuator, and RF connector 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

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 13, 2026

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