

ANRITSU

68369B

The Anritsu 68369B is a synthesized microwave sweep and signal generator belonging to the 68B Series. Covering a wide frequency range from 10 MHz to 40 GHz, it is designed for local oscillator substitution, component analysis, and automated test equipment (ATE) systems. It features ultra-low single-sideband (SSB) phase noise, precise power output control from -125 dBm to +17 dBm, and comprehensive internal modulation capabilities including AM, FM, phase, and pulse modulation.

SPECIFICATIONS

Frequency

Minimum Frequency	10 MHz Hz
Maximum Frequency	40 GHz Hz
Frequency Resolution	1 kHz (0.1 Hz optional)
Frequency Switching Time	< 40 ms to within 1 kHz
Frequency Reference Aging Rate	< 2 x 10 ⁻⁹ per day
Frequency Reference Aging Rate (Option 16)	< 5 x 10 ⁻¹⁰ per day
Frequency Reference Temperature Stability	< 2 x 10 ⁻⁸ from 0 to 55 °C

Output

Phase Noise	-86 dBc/Hz @ 10 kHz offset (10 GHz carrier)
-------------	---

Modulation

Modulation	AM, FM, Phase, Pulse
Sweep Modes	Analog, Step, Manual

General

Reference Oscillator	10 MHz (Aging: < 2 x 10 ⁻⁹ /day, Temperature stability: < 2 x 10 ⁻⁸ from 0 to 55 °C)
Interfaces	GPIO (IEEE-488.2), Aux I/O
Display	Front panel Liquid Crystal Display (LCD)
Power Consumption	400 VA maximum
GPIO Programming Language	SCPI / Native Anritsu 68B command set
Warm-up Time	1 hour (typical to meet specifications)

Physical

Power Supply	90 to 132 Vac or 180 to 264 Vac, 48 to 440 Hz, 400 VA maximum
Dimensions (W×H×D)	133 x 429 x 597 mm
Weight	23 kg

Frequency Specifications

Frequency Range	10 MHz to 40 GHz
-----------------	------------------

RF Output Power

Power Level Accuracy	±1 dB
Level Flatness Correction	User level flatness correction
Output Impedance	50 Ω (nominal)

Spectral Purity

SSB Phase Noise	-86 dBc/Hz @ 10 kHz offset (10 GHz carrier)
Harmonics (10 MHz to 2 GHz)	< -30 dBc
Harmonics (2 GHz to 20 GHz)	< -40 dBc
Harmonics (20 GHz to 40 GHz)	< -30 dBc
Non-Harmonic Spurious (10 MHz to 2 GHz)	< -60 dBc
Non-Harmonic Spurious (2 GHz to 40 GHz)	< -60 dBc

Sweep Capabilities

Sweep Capabilities	Analog, Step, and Manual Sweep
--------------------	--------------------------------

Modulation Capabilities

Internal Modulation Generator	AM, FM, Phase (Φ M), and Pulse modulation
Modulating Waveforms	6 built-in waveforms

General Specifications

Instrument Setup Storage	10 non-volatile front panel setups
Multi-Generator Sync	Master/slave operation with additional generator

Front & Rear Panel Interfaces

RF Output Connector Type	K (female)
Remote Control Interface	GPIB (IEEE-488.2)

Environmental

Operating Temperature Range	0 °C to +55 °C
Storage Temperature Range	-40 °C to +75 °C
Relative Humidity	5% to 95% at 40 °C

Inputs & Outputs

Sweep Output	BNC female, 0 to 10 V nominal
External Trigger Input	BNC female, TTL compatible

Level

Power Level Resolution	0.01 dB
------------------------	---------

TECHNOLOGY

Synthesized Microwave Signal Generator

APPLICATIONS

Local Oscillator, Component Analysis, Automated Test Equipment (ATE)

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.