ANRITSU

69367B

The Anritsu 69367B is a Synthesized High Performance Signal Generator from the premium 69B family, designed to meet the rigorous demands of A.T.E. systems and advanced signal simulation. Covering a frequency range of 10 MHz to 40 GHz (extendable down to 0.1 Hz), it offers ultra-low SSB phase noise, exceptional amplitude accuracy, fast switching speeds of under 5 ms, and a comprehensive suite of internal analog modulation capabilities including AM, FM, Phase, Pulse, and Scan modulation.

SPECIFICATIONS

Frequency

Minimum Frequency	10 MHz Hz
Maximum Frequency	40 GHz Hz
Frequency Resolution	1 kHz (0.1 Hz optional with Option 11)

Output

Maximum Output Power	+13 dBm dBm
Output Power Range	-120 to +13 dBm (frequency dependent)
Phase Noise	<-100 dBc/Hz @ 10 kHz offset (10 GHz carrier, standard)

Modulation

Modulation	AM, FM, Phase, Pulse, Scan, User-defined
Sweep Modes	Digital frequency sweep, digital power sweep, and internal list mode

General

Reference Oscillator	Internal 10 MHz reference
Interfaces	GPIB (IEEE-488.2)
Display	Front-panel LCD with menu-driven interface

Physical

Power Supply	90 to 132 Vac or 180 to 264 Vac, 48 to 440 Hz, 350 VA maximum
Dimensions (W×H×D)	429 mm x 133 mm x 597 mm mm
Weight	23 kg kg

Frequency Specifications

Frequency Range	10 MHz to 40 GHz (0.1 Hz to 40 GHz with Option 22)
Internal Reference Frequency	10 MHz

Amplitude Specifications

Guaranteed Leveled Power (10 MHz to 2 GHz)	+13 dBm
Guaranteed Leveled Power (2 to 20 GHz)	+13 dBm
Guaranteed Leveled Power (20 to 40 GHz)	+6 dBm
Minimum Output Power	-120 dBm
Amplitude Resolution	0.01 dB
RF Output Impedance	50 Ω

Spectral Purity

SSB Phase Noise	Ultra-low (69B family high performance class)
Harmonics	<-30 dBc
Non-harmonics	<-60 dBc (<20 GHz); <-50 dBc (20 to 40 GHz)

Analog Modulation

Noise Jitter Capability	Internal Gaussian and Uniform noise

System Connectivity and Interfaces

RF Output Connector	K Connector (female), 2.92 mm compatible

Physical and Environmental Specifications

Rack Unit (RU) Height	3 RU

Hardware and Software Options

Option 11 Compatibility	0.1 Hz Frequency Resolution
Option 22 Compatibility	0.1 Hz to 10 MHz LF/Audio Frequency Extension

Environmental

Operating Temperature Range	0 °C to +50 °C
Storage Temperature Range	-40 °C to +75 °C

Power and Environmental

Power Consumption	350 VA maximum
Warm-Up Time	1 hour to meet all specifications
Operating Altitude	Up to 4,600 m
Storage Altitude	Up to 15,000 m

Frequency and Phase Control

Phase Offset Range	-360° to +360°
Phase Offset Resolution	0.1°
External Reference Input Frequency	1, 2, 5, or 10 MHz
External Reference Input Level	0 to +20 dBm

Modulation - Pulse

Pulse Modulation On/Off Ratio	> 80 dB (Option 20)
Pulse Rise/Fall Time	< 15 ns, < 10 ns typical (Option 20)
Pulse Minimum Width	50 ns, 15 ns typical (Option 20)

Modulation - AM

AM Depth Range	0% to 90% in leveled mode

TECHNOLOGY

Synthesized Signal Generation

APPLICATIONS

A.T.E. Systems, Radar Simulation, Receiver Sensitivity Testing