

ANRITSU

68047C

The Anritsu 68047C is a synthesized CW generator operating from 10 MHz to 20 GHz, designed for A.T.E. applications, local oscillator duty, and general continuous wave (CW) testing. It features fast frequency switching, high output power, low phase noise, and an intuitive menu-driven front panel.

SPECIFICATIONS

Frequency

Minimum Frequency	10 MHz Hz
Maximum Frequency	20 GHz Hz
Frequency Resolution	1 kHz (0.1 Hz with Option 10)
Frequency Range	10 MHz to 20 GHz
Reference Output Frequency	10 MHz
Reference Input Frequency	10 MHz
Reference Input Impedance	50 ohms

Output

Maximum Output Power	+13 dBm (+17 dBm with Option 15) dBm
Output Power Range	-15 dBm to +13 dBm (standard); -120 dBm to +13 dBm (with Option 2 step attenuator)
Phase Noise	<-88 dBc/Hz (at 10 kHz offset, 10 GHz carrier)

Modulation

Modulation	CW (Pulse Modulation available via Option 12)
Sweep Modes	Step Sweep, List Sweep

General

Reference Oscillator	Internal 10 MHz
Interfaces	GPIO (IEEE-488.2)
Display	Front panel LCD
Power Consumption	350 VA maximum
Operating Temperature	0°C to 55°C
Storage Temperature	-40°C to +75°C
Relative Humidity	5% to 95%, non-condensing
Rack Mount Height	3U (133 mm)
Storage Registers	10 storage registers for front panel settings

Physical

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

Amplitude

Power Level Resolution	0.01 dB
RF Output Impedance	50 ohms
Maximum Leveled Power (0.01 to 2 GHz)	+13 dBm
Maximum Leveled Power (2 to 20 GHz)	+13 dBm (+17 dBm with Option 15)
Minimum Leveled Power (Standard)	-15 dBm
Minimum Leveled Power (with Option 2)	-120 dBm

Spectral Purity

Harmonics (0.01 to 2 GHz)	<-30 dBc
Harmonics (2 to 20 GHz)	<-50 dBc
Non-Harmonic Spurious (0.01 to 2 GHz)	<-60 dBc
Non-Harmonic Spurious (2 to 20 GHz)	<-60 dBc

Sweep

Sweep Range	Any span within frequency range
Power Sweep Range	Any span within power limits
Number of Step Sweep Points	1 to 1600

Interfaces

RF Output Connector	Ruggedized K-Connector (female)
Remote Control	GPIO (IEEE-488.2) standard; SCPI compatible
Rear Panel Auxiliary I/O Connector	25-pin D-sub

Output Power

Power Level Accuracy	±1.0 dB
Level Flatness (0.01 to 20 GHz)	±0.8 dB

Connectivity

GPIO Standard	IEEE-488.2
GPIO Emulation Languages	SCPI, HP 8340, HP 8360 (with Option 10)

Power

AC Power Frequency	48 Hz to 440 Hz
AC Power Voltage	90 to 132 Vac or 180 to 264 Vac (automatically selected)

Power & Leveling

Step Attenuator Attenuation Range	110 dB in 10 dB steps (with Option 2)
-----------------------------------	---------------------------------------

Environmental

Altitude (Operating)	Up to 4,600 meters (15,000 feet)
Altitude (Non-operating)	Up to 15,000 meters (50,000 feet)

TECHNOLOGY

Synthesized CW Signal Generator

APPLICATIONS

A.T.E. Applications, Local Oscillator Duty, CW Signal Generation

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