KEYSIGHT TECHNOLOGIES (AGILENT HP)

83732A

The Keysight (formerly Agilent / HP) 83732A is a high-performance synthesized signal generator operating in the frequency range of 10 MHz to 20 GHz. Designed for demanding applications such as radar, EW, and communication receiver testing, it offers standard AM, FM, Phase, and Pulse modulation with excellent spectral purity.

SPECIFICATIONS

Frequency

Minimum Frequency	10 MHz Hz
Maximum Frequency	20 GHz Hz

General

Interfaces	GPIB

Frequency Characteristics

Frequency Range	10 MHz to 20 GHz
Internal Reference Frequency	10 MHz
External Reference Input Frequency	10 MHz

Output Power and Amplitude

Output Power Resolution	0.01 dB
Output Impedance	50 Ohms

Ports and Connectivity

RF Output Connector	3.5 mm male

Power and Physical Characteristics

Power Consumption	400 VA maximum
Height	132.6 mm
Width	425.5 mm
Depth	497.8 mm

Factory Options and Accessories

Option 1E1	Adds 110 dB step attenuator
Option 1E5	High-stability timebase
Option 1ED	Type-N female RF output connector

Options

Option 1E8	Adds 1 Hz frequency resolution
Option 1E1 Attenuator Range	110 dB in 10 dB steps
Option 1E1 Minimum Output Power	-110 dBm
Option 1ED Connector Type	Type-N female
Option 1E5 Aging Rate	< 5 x 10^-10 per day

Environmental

Operating Temperature Range	0 °C to +55 °C
Storage Temperature Range	-40 °C to +75 °C
Operating Altitude	Up to 4,600 meters (15,000 feet)
Storage Altitude	Up to 15,200 meters (50,000 feet)

Compliance

EMC Compliance	Conforms to EN 55011 Group 1, Class A

Performance

Subharmonics	None (<20 GHz)

Modulation Inputs

External Pulse Input Impedance	50 ohms (nominal)

Connectivity & Control

Command Language	SCPI

TECHNOLOGY

RF and Microwave Synthesizer

APPLICATIONS

RF and Microwave Test & Measurement, Radar and Receiver Testing