KEYSIGHT TECHNOLOGIES (AGILENT HP)

8673D

The Keysight (Agilent/HP) 8673D is a high-performance synthesized signal generator designed for microwave applications spanning 50 MHz to 26 GHz. It provides high spectral purity, built-in AM/FM/Pulse modulation, and automated sweep modes.

SPECIFICATIONS

Frequency

Minimum Frequency	50 MHz Hz
Maximum Frequency	26 GHz Hz

Output

Maximum Output Power	8 dBm dBm
Output Power Range	-100 to +8 dBm

Modulation

Modulation	AM, FM, Pulse
Sweep Modes	Auto, Manual, Single
Internal Modulation Oscillator Frequencies	400 Hz and 1 kHz
FM Rate (3 dB Bandwidth)	AC: 100 Hz to 10 MHz; DC: DC to 10 MHz

General

Reference Oscillator	10 MHz
Interfaces	HP-IB (GPIB)
Display	7-segment LED

Physical

Power Supply	100 / 120 / 220 / 240 V AC (+5%, -10%), 48 to 66 Hz, < 400 VA
Dimensions (W×H×D)	425 mm × 146 mm × 620 mm mm
Weight	29 kg kg

Frequency Specifications

Internal Reference Aging Rate	5 x 10^-10 / day
External Reference Input Frequency	10 MHz

Amplitude Specifications

Minimum Output Power	-100 dBm
Amplitude Resolution	0.1 dB
Output Impedance	50 Ohm

Spectral Purity

Harmonics	-40 dBc
Sub-harmonics	<-25 dBc (18.6 to 26 GHz)

Pulse Modulation

Pulse Modulation On/Off Ratio	> 80 dB (2.0 to 18.0 GHz), > 70 dB (18.0 to 26.0 GHz)
Minimum Pulse Width	100 ns

Frequency Modulation

Maximum FM Deviation	up to 10 MHz peak (above 18.0 GHz)

Amplitude Modulation

Maximum AM Depth	75%
AM 3 dB Bandwidth	DC to 100 kHz

Environmental

Operating Temperature Range	0 to +55 °C

Inputs & Outputs

RF Output Connector	Precision 3.5 mm (male)

Performance

Output SWR	< 1.5:1 (0.05 to 18.6 GHz), < 2.0:1 (18.6 to 26 GHz)

Power Requirements

Maximum Power Consumption	400 VA
AC Input Voltage	100 / 120 / 220 / 240 V AC (+5% / -10%), 48 to 66 Hz

TECHNOLOGY

Synthesized Signal Generator

APPLICATIONS

Microwave and RF Testing