

KEYSIGHT TECHNOLOGIES (AGILENT HP)

8673E

The Keysight (formerly Agilent / HP) 8673E is a synthesized signal generator designed for RF and microwave testing. Operating over a frequency range of 2.0 to 18.0 GHz, it provides AM, FM, and pulse modulation capabilities along with precise digital sweep functions, making it a reliable instrument for complex signal generation tasks.

SPECIFICATIONS

Frequency

Minimum Frequency	2.0 GHz Hz
Maximum Frequency	18.0 GHz Hz
Frequency Resolution	1 kHz
Frequency Bands	2.0-6.6 GHz / 6.6-12.3 GHz / 12.3-18.0 GHz

Output

Maximum Output Power	8 dBm dBm
Output Power Range	-120 to +8 dBm

Modulation

Modulation	AM, FM, Pulse
Sweep Modes	Auto, Manual, Single
Pulse Modulation Rise/Fall Time	< 50 ns
Pulse Modulation On/Off Ratio	> 80 dB
FM Peak Deviation	Up to 10 MHz
AM Maximum Depth	75%
AM Modulation Rate	50 Hz to 10 kHz
Internal Modulation Frequencies	400 Hz and 1 kHz (selectable)

General

Interfaces	HP-IB (GPIB)
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Physical

Power Supply	100 / 120 / 220 / 240 V AC (+11%, -10%), 48 to 66 Hz, 400 VA max
Dimensions (W×H×D)	425 mm × 133 mm × 520 mm mm
Weight	24 kg kg

Frequency Specifications

Frequency Range	2.0 GHz to 18.0 GHz
External Reference Input Frequency	10 MHz

Amplitude Specifications

Minimum Output Power	-120 dBm
Amplitude Resolution	0.1 dB
Output Impedance	50 Ohm

Spectral Purity

Harmonics	-40 dBc
Non-Harmonics (Spurious)	-60 dBc

Sweep and Operating Modes

Digital Sweep Capability	Yes
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System Connectivity and Interfaces

RF Output Connector Type	Type-N
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Environmental

Operating Temperature	0 to 55 °C
Storage Temperature	-55 to +75 °C
Operating Altitude	Up to 4600 m

RF Output

Output Flatness	±1.2 dB (leveled)
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Power Requirements

Power Consumption	400 VA (maximum)
Line Frequency	48 to 66 Hz

Interfaces

HP-IB Interface Functions	SH1, AH1, T6, L4, SR1, RL1, PP0, DC1, DT1, C0, E1
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TECHNOLOGY

Synthesized Signal Generation

APPLICATIONS

RF & Microwave Signal Testing

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