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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 8673C Signal Generator

HP Agilent Keysight 8673C Synthesized Signal Generator 0.05 to 18.6 GHz The HP/Agilent 8673C extends the 8673 synthesized family down to 50 MHz while covering through 18.6 GHz. OEM 8673C/8673D operating manual (08673-90070) and family catalog rows list AM, FM, internally leveled pulse, digital sweep identical to 8673B/C/D, and HP-IB. Microwave and RF-to-microwave receiver tests from 50 MHz to 18 GHz, pulsed radar stimulus, and automated HP-IB source systems needing the low band the 8673B omits. 0.05 to 18.6 GHz versus 2 GHz start on 8673B/E The HP/Agilent 8673C extends the 8673 synthesized family down to 50 MHz while covering through 18.6 GHz. OEM 8673C/8673D operating manual (08673-90070) and family catalog rows list AM, FM, internally leveled pulse, digital sweep identical to 8673B/C/D, and HP-IB. Microwave and RF-to-microwave receiver tests from 50 MHz to 18 GHz, pulsed radar stimulus, and automated HP-IB source systems needing the low band the 8673B omits. 0.05 to 18.6 GHz versus 2 GHz start on 8673B/E Family-identical digital sweep with 8673B/D



MODEL

**Agilent / Keysight
8673C**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

8673C

LISTING

<https://aumictechlabs.com/products/8673c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 8673C is a synthesized signal generator delivering precise, leveled output across 50 MHz to 18.6 GHz. Built for demanding RF/microwave test applications in communications and electronic warfare, it combines fast frequency switching with low phase noise and flexible modulation capabilities. Technical Specifications Frequency Performance

Operating range: 50 MHz to 18.6 GHz Overrange capability: 0.01 GHz to 18.6 GHz Frequency resolution: 1 kHz minimum Frequency switching time: 50 ms Time base stability: 5×10^{-9} per day External reference: 10 MHz Output Characteristics Output level: +11 dBm to -100 dBm (50 MHz to 2.0 GHz); +5 dBm to -100 dBm (2 to 16 GHz); +2 dBm to -100 dBm (16 to 18.6 GHz) Level resolution: 0.1 dB Level accuracy: 2.7 dB Level switching time: 25 ms Output impedance: 50 Ohms Spectral Purity Single-sideband phase noise: -110 dBc/Hz at 100 kHz offset (2 to 6.2 GHz) Harmonics: -60 dBc Non-harmonic noise: -60 dBc Modulation AM: Internally leveled; calibrated depth to 75% at rates up to 10 kHz; external control via 1 V peak input FM: Six deviation ranges to 10 MHz peak; rates down to 50 Hz Pulse: 2 to 18 GHz; ON/OFF ratio >70 dB; rise/fall times <50 ns; PRF 50 Hz to 1 MHz; minimum duty cycle <0.0001 Simultaneous AM, FM, and pulse modulation supported Sweep Functions Modes: Auto, Manual, Single Type: Start/stop or span sweep Up to 9999 frequency points per sweep Dwell time: 1 to 255 (settable) Key Features Frequency resolution down to 1 kHz enables fine-grain signal tuning Leveled output maintains amplitude stability across frequency transitions Multiple modulation types support complex signal simulation and testing Wide dynamic range (-100 to +11 dBm) accommodates varied load conditions Fast switching times minimize test cycle duration Typical Applications Communication system characterization and validation Electronic warfare signal simulation Component and subsystem RF testing Transceiver performance evaluation Compatibility & Integration The 50-ohm output impedance ensures direct interfacing with standard RF test equipment. External 10 MHz frequency reference input enables phase coherence with system clocks. Modulation inputs accept standard -1 V to +1 V control signals.

8673C Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Synthesized microwave signal generator
Series Family	HP Agilent 8673A/B/C/D/E/G/H
Frequency Range	0.05 to 18.6 GHz
Frequency Start versus 8673B	50 MHz versus 2 GHz
Frequency Stop versus 8673D	18.6 GHz versus 26 GHz
Frequency Resolution Class	1 to 3 kHz by band on 2 to 18 GHz (8673E column)
Output Level Class 2 to 18 GHz	plus 8 to minus 120 dBm (8673E column) / plus 8 dBm to 18 GHz (8673B column)
Output Impedance	50 ohm
AM Depth Class	0 to 75 percent at 0 dBm maximum carrier (8673E column)
AM Rate Class 30 percent	10 Hz to 50 kHz plus or minus 3 dB (8673E column)
Pulse On Off Class	greater than 70 dB (8673E column)
Pulse Rise Fall Typical	less than 50 ns (8673E column)
Pulse Repetition Frequency Class	50 Hz to 1 MHz (8673E column)
Sweep	digital sweep identical to 8673B/C/D
Remote Interface	HP-IB
HP-IB Functions	SH1, AH1, T5, TE0, L3, LE0, SR1, RL1, PP1, DC1, DT1, C0, E1 (8673E sheet)
Operating Temperature	0 to 55 C
Power	100, 120, 220, 240 V plus 5 percent minus 10 percent, 48 to 66 Hz, 400 VA max
Net Weight	29 kg (64 lb)
Dimensions	146 mmHby 425 mmWby 620 mmDArchitecture: YIG-tuned oscillator phase locked to 10 MHz quartz
Level Resolution	0.1 dB digital display
Harmonics Class at plus 3 dBm	less than minus 40 dBc (8673E column)
Subharmonics Class at plus 3 dBm	minus 35 dBc (8673E column)

PARAMETER	VALUE
SSB Phase Noise Class	less than minus 60 dBc in 1 Hz BW at 1 kHz offset CW (8673E column)
Programming	all functions except line switch
Reference	internal 10 MHz quartz

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 55 C
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Harmonics Class at plus 3 dBm	less than minus 40 dBc (8673E column)
Subharmonics Class at plus 3 dBm	minus 35 dBc (8673E column)
SSB Phase Noise Class	less than minus 60 dBc in 1 Hz BW at 1 kHz offset CW (8673E column)
Programming	all functions except line switch
Reference	internal 10 MHz quartz

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Pulse Rise Fall Typical	less than 50 ns (8673E column)
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Subharmonics Class at plus 3 dBm	minus 35 dBc (8673E column)
SSB Phase Noise Class	less than minus 60 dBc in 1 Hz BW at 1 kHz offset CW (8673E column)

PARAMETER	VALUE
Programming	all functions except line switch
Reference	internal 10 MHz quartz

Option Class: 001 delete attenuator, 002 delete reference, 004 rear RF, 006 slides

Notes

Frequency range 0.05 to 18.6 GHz is the 8673C model row. Modulation, sweep, HP-IB, power, and 2 to 18 GHz spectral/level rows reuse the OEM 8673E data sheet statement that those characteristics are identical to 8673B/C/D. Confirm 50 MHz to 2 GHz heterodyne-band power on the 8673C/D operating manual specification table.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.