

KEYSIGHT TECHNOLOGIES (AGILENT HP)

83712B

The Keysight / Agilent (HP) 83712B is a synthesized CW signal generator offering a frequency range of 10 MHz to 20 GHz. Designed for high performance at an affordable price, it utilizes fundamental oscillators and switched low-pass filters to deliver excellent spectral purity. It provides a high typical output power (>+14 dBm), making it ideal for driving the LO port of mixers and other high-power RF/microwave test applications, while maintaining low harmonics (<-50 dBc) and suppressing spurious signals (<-60 dBc).

SPECIFICATIONS

General

Interfaces	HP-IB (IEEE-488)
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Physical

Power Supply	90 to 132 Vac (50 to 400 Hz), 198 to 264 Vac (50 to 60 Hz); 400 VA max
Operating Temperature	0 to 55 °C
Dimensions (W×H×D)	426 × 133 × 498 mm
Weight	16 kg

Frequency Specifications

Frequency Range	10 MHz - 20 GHz
Frequency Resolution	1 kHz (1 Hz with Option 1E8)

Output Power Specifications

Low Output Power	Via Option 1E1 (Step Attenuator)
Output Impedance	50 Ω

Spectral Purity

Non-harmonics (Spurious)	<-60 dBc
Sub-harmonics	Eliminated

Interfaces and Connectivity

RF Output Connector Type	3.5 mm (male)
Remote Programming Interface	HP-IB

Output Performance

Amplitude Resolution	0.01 dB
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Frequency

Sweep Modes	Step, List
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Environmental

Storage Temperature	-40 °C to +70 °C
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TECHNOLOGY

Synthesized CW Signal Generation

APPLICATIONS

LO substitution, out-of-channel tests, receiver sensitivity and SINAD measurements, high-power microwave component 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.