

KEYSIGHT TECHNOLOGIES (AGILENT HP)

83752B

The Keysight (formerly Agilent / Hewlett-Packard) 83752B is a high-power synthesized swept signal generator designed for component test, scalar network analysis, and general-purpose benchtop applications. It provides a frequency range of 10 MHz to 20 GHz, combining the superior accuracy and stability of a fully synthesized source with the speed of an analog sweeper. The 83752B features fully phase-locked analog, stepped, and CW sweep modes in both broadband and narrowband operation, making it particularly well-suited for characterizing narrowband devices and conducting mixer tests with its offset frequency sweep capability.

SPECIFICATIONS

General

Interfaces	HP-IB (IEEE-488)
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Physical

Power Supply	90 to 132 Vac or 198 to 264 Vac, 48 to 66 Hz, 400 VA max
Operating Temperature	0 to +55 °C °C
Dimensions (W×H×D)	425 × 133 × 483 mm
Weight	16 kg

Frequency Characteristics

Frequency Range	10 MHz - 20 GHz
Frequency Resolution	1 Hz
Internal Reference Frequency	10 MHz

Sweep Characteristics

Sweep Modes	CW, Stepped, Analog (Ramp)
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Output Power Specifications

Output Power Level	High Power version
Output Impedance	50 Ω

Connectivity and Interfaces

RF Output Connector	3.5 mm (male)
Remote Programming Interface	HP-IB (IEEE-488)
10 MHz Reference Input	BNC (female)
10 MHz Reference Output	BNC (female)

Modulation

Pulse Modulation On/Off Ratio	> 80 dB
Pulse Modulation Rise/Fall Time	< 25 ns

Output Power

Amplitude Resolution	0.01 dB
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Environmental

Storage Temperature	-40 °C to +75 °C
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Options

Step Attenuator Option (1E1)	70 dB in 10 dB steps
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TECHNOLOGY

Synthesized RF/Microwave

APPLICATIONS

Component test, scalar test, mixer test, general purpose benchtop

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