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Agilent Technologies



# 8350B Sweep Oscillator Mainframe

## Description

The Agilent 8350 Sweep Oscillator is a powerful general-purpose source for swept microwave measurements, CW signal generations and automatic testing and provides a frequency range of 10 MHz to 40 GHz. Combine the Agilent 8350B mainframe with any of the 11 versatile Agilent 83500 Series RF plug-ins to configure a source that meets your frequency and power requirements. The Agilent 8350 mainframe includes many productivity features, such as five independent, continuously variable markers, a marker sweep function, and save/recall registers that provide quick access to nine complete front panel settings.

- Broadband frequency coverage
- High output power
- Low harmonics
- Five frequency markers
- Agilent-IB control of all Agilent 8350B mainframe functions, and all Agilent 83500 series plug-in functions

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# 8350B Sweep Oscillator Mainframe-

General Specifications
**Operating Temperature:** 0 to 55 °C
**Power:** 100, 120, 220, or 240 V ±10%, 50 to 60 GHz @ 375 V-A including RF Plug-in
**Size:** 425 mm W x 133.3 mm H x 422 mm D (16.75 in x 5.25 in x 16.6 in)
**Net Weight** (without RF unit): 16.5 kg (36.4 lb); Shipping Weight (without RF unit): 22.7 kg (50 lb)
**Display Resolution (power):** 0.1 dB
**Minimum Sweep Time** Single Band: 10 ms Agilent 83596B/97B/98A/9A Only: 20 ms Full Band: Agilent 83590A, 83592A/B: 25 ms
**RF Output Connector** Agilent 83590A/92A/92B/92C: Type-N, female Agilent 83594A/95A/95C: 3.5 mm, male Agilent 83596B/97B/98B/99A: 2.4 mm, male

Output Characteristics
**Minimum Settable Power:** -5 dBm Agilent 83592B/95C Only: -2 dBm Agilent 83596B/97B/98A/99A Only: -12 dBm
**Source Output VSWR (50 ohm nominal):** <1.9, typical Agilent 83596B/97B/98A/99A Only: <2.0
**Externally Leveled Power Variation (typical)** Crystal Detector or Power Meter: ±1.5 dB, typical
**Power Sweep** Range: >12 dB Agilent 83592C/94A/95A Only: >9 dB Agilent 83956B/97B/98A/99A Only: >12 dB (22 dB <20 GHz) Accuracy (including linearity): ±1.5 dB, typical Resolution (displayed): 0.1 dB
**Power Slope** Range: 0-5 dB/GHz, to maximum power sweep range Linearity: 0.2 dB, typical Resolution (displayed): 0.01 dB/GHz

Modulation Characteristics
**External AM (typical)** Frequency Response: 100 kHz Control Range: 15 dB Sensitivity: 1 dB/V
**Internal Square-Wave Modulation:** 1 kHz or 27.8 kHz square wave On/Off Ratio: >30 dB
**External Pulse Modulation (typical)** Rise/Fall Time: <=50 ns Min Pulse Width Internally Leveled: <=5 µs Unleveled: <=200 ns Agilent 83596B/97B/98A/99A only: <=1 µs
**External FM** Max Deviations for Modulation Frequencies dc to 100 Hz: ±75 MHz 100 Hz to 1 MHz: ±7 MHz 1 MHz to 2 MHz: ±1 MHz Sensitivity: -20 or -6 MHz/V

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