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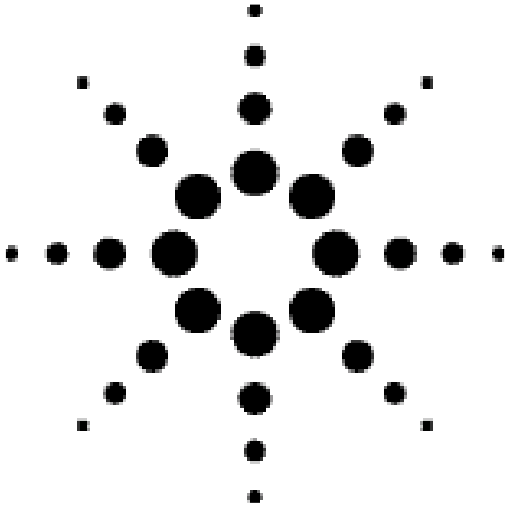


8350B Sweep Oscillator Mainframe

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



8350B Sweep Oscillator Mainframe-

General Specifications

Operating Temperature: 0 to 55 °C

Power: 100, 120, 220, or 240 V \pm 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: \pm 1.5 dB, typical

Power Sweep Range: >12 dB Agilent 83592C/94A/95A Only: >9 dB Agilent 83596B/97B/98A/99A Only: >12 dB (22 dB <20 GHz) Accuracy (including linearity): \pm 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: \leq 50 ns Min Pulse Width Internally Leveled: \leq 5 μ s Unleveled: \leq 200 ns Agilent 83596B/97B/98A/99A only: \leq 1 μ s

External FM Max Deviations for Modulation Frequencies dc to 100 Hz: \pm 75 MHz 100 Hz to 1 MHz: \pm 7 MHz 1 MHz to 2 MHz: \pm 1 MHz Sensitivity: -20 or -6 MHz/V



Agilent Technologies



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