



# 8350B Sweep Oscillator Mainframe (Discontinued - Support Information Only)

## Data Sheet

### 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  $\mu$ s Unleveled:  $\leq$ 200 ns Agilent 83596B/97B/98A/99A only:  $\leq$ 1  $\mu$ 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



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