

83590A RF Plug-in for the Agilent 8350B, 2 GHz to 20 GHz (Discontinued - Support Information Only)

Data Sheet

Frequency Characteristics:

Range Band 1: 2 to 7 GHz Band 2: 7 to 13.5 GHz Band 3: 13.5 to 20 GHz Full Band: 2 to 20 GHz Accuracy CW Mode Band 1: ±5 MHz Band 2: ±10 MHz Band 3: ±10 MHz All Sweep Modes Band 1: ±20 MHz Band 2: ±25 MHz Band 3: ±30 MHz Full Band: ±50 MHz Frequency Markers Band 1: ±20 MHz, ±0.5% of sweep width Band 2: ±25 MHz, ±0.5% of sweep width Band 3: ±30 MHz, ±0.5% of sweep width Full Band: ±50 MHz, ±0.5% of sweep width

Stability With Temperature Band 1: ±200 kHz/°C, typical Band 2: ±400 kHz/°C, typical Band 3: ±600 kHz/°C, typical With 10 dB Power Change: Band 1: ±200 kHz Band 2: ±200 kHz Band 3: ±400 kHz Full Band: ±600 kHz With 3:1 Load SWR: Band 1: ±100 kHz Band 2: ±200 kHz Band 3: ±300 kHz Full Band: ±300 kHz

Output Characteristics:

Maximum Leveled Power: Normal: Band 1: 10 mW Band 2: 10 mW Band 3: 10 mW Full Band: 1 mW Option 002: Band 1: 7.0 mW Band 2: 6.3 mW Band 3: 5.0 mW Full Band: 5.0 mW Power Level Accuracy: Band 1: ±1.3 dB Band 2: ±1.3 dB Band 3: ±1.4 dB Full Band: ±1.5 dB

Spurious Signals Harmonics and Subharmonics: <-25 dBc

Output Power Resolution Displayed: 0.1 dB Programmable/Settable: 0.01 dB

Minimum Settable Power: -5 dBm (-75 dBm with Option 002)

Power Sweep Calibrated Range: >15 dB (>12 dB with Option 002) Accuracy (including linearity): ±1.5 dB Resolution: 0.1 dB, displayed

Modulation Characteristics:

External AM Frequency Response: 100 kHz, typical Maximum Input: 15 V Range of Amplitude Control: 15 dB, typical Sensitivity: 1 dB/V typical Input Impedance: (a) 10 kohms

External FM Maximum Deviations for Modulation Frequencies DC to 100 Hz: ±75 MHz (cross-over coupled) ±12 MHz (direct coupled) 100 Hz to 1 MHz: ±7 MHz 1 MHz to 2 MHz: ±5 MHz 2 to 10 MHz: ±1 MHz **Sensitivity** (switch selectable) FM Mode: -20 MHz/V, typical Phase Lock Mode: -6 MHz/V, typical Input Impedance: @ 2 kohms

General Specifications:

Minimum Sweep Time: 10 ms, single band 25 ms, full band Auxiliary Output Rear Panel: 2 to 7 GHz Fundamental Oscillator Output: 0 dBm, nominally Frequency Reference Output: 1 V/GHz (0.01 to 18 GHz) 0.5 V/GHz (0.01 to 20 GHz) RF Output Connector: Type-N, female Net Weight: 5.7 kg (13.2 lb) Shipping Weight: 9.2 kg (20 lb) Furnished: Operating/service manual



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