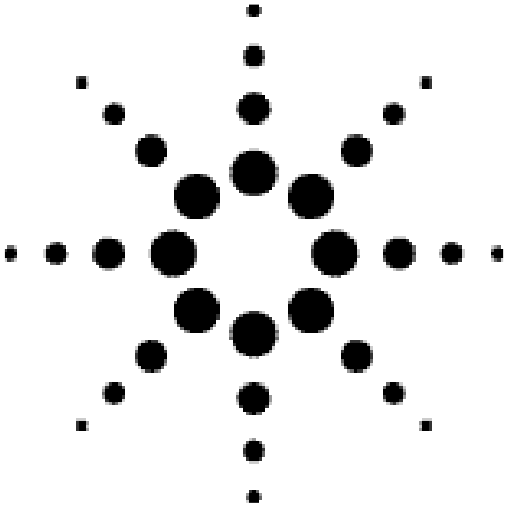

83595A RF Plug-in for the Agilent 8350B Sweep Oscillator (Discontinued - Support Information Only)

Data Sheet

Frequency Characteristics:
Range Band 0: 0.01 to 2.4 GHz
Band 1: 2.4 to 7 GHz
Band 2: 7 to 13.5 GHz
Band 3: 13.5 to 20 GHz
Band 4: 20 to 26.5 GHz
Full Band: 0.01 to 26.5 GHz
Accuracy CW Mode Band 0: ±5 MHz
Band 1: ±5 MHz
Band 2: ±10 MHz
Band 3: ±10 MHz
Band 4: ±12 MHz
All Sweep Modes Band 0: ±15 MHz
Band 1: ±20 MHz
Band 2: ±25 MHz
Band 3: ±30 MHz
Band 4: ±35 MHz
Full Band: ±50 MHz
Frequency Markers Band 0: ±15 MHz, ±0.5% of sweep width
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
Band 4: ±35 MHz, ±0.5% of sweep width
Full Band: ±50 MHz, ±0.5% of sweep width
Stability With Temperature Band 0: ±200 kHz/°C, typical
Band 1: ±200 kHz/°C, typical
Band 2: ±400 kHz/°C, typical
Band 3: ±600 kHz/°C, typical
Band 4: ±800 MHz/°C, typical
Full Band: ±800 MHz/°C, typical
With 10 dB Power Change: Band 0: ±200 kHz
Band 1: ±200 kHz
Band 2: ±400 kHz
Band 3: ±600 kHz
Band 4: ±800 MHz
Full Band: ±800 MHz
With 3:1 Load SWR: Band 0: ±100 kHz
Band 1: ±100 kHz
Band 2: ±200 kHz

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Band 3: ±300 kHz
Band 4: ±400 MHz
Full Band: ±400 MHz

Output Characteristics:
Maximum Leveled Power: Normal: Band 0: 10 mW
Band 1: 10 mW
Band 2: 10 mW
Band 3: 10 mW
Band 4: 2.5 mW
Full Band: 2.5 mW
Option 002: Band 0: 10 mW
Band 1: 7 mW
Band 2: 6.3 mW
Band 3: 5 mW
Band 4: 1.25 mW
Full Band: 1.25 mW
Power Level Accuracy: Band 0: ±1.5 dB
Band 1: ±1.3 dB
Band 2: ±1.3 dB
Band 3: ±1.4 dB
Band 4: ±1.7 dB
Full Band: ±1.8 dB
Spurious Signals: Harmonics and Subharmonics: Band 0: <-25 dBc
Band 1: <-25 dBc
Band 2: <-25 dBc
Band 3: <-25 dBc
Band 4: <-20 dBc
Full Band: <-20 dBc
Output Power Resolution Displayed: 0.1 dB Programmable/Ssettable: 0.01 dB
Minimum Settable Power: -5 dBm (-60 dBm with Option 002)
Power Sweep: Calibrated Range: >9 dB (>6 dB with Option 002) Accuracy (including linearity): >1.5 dB, typical

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: @ 10 kohms
External FM Maximum Deviations for Modulation Frequencies DC to 100 Hz: ±75 MHz 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 Input Impedance: @ 2 kohms External Pulse Modulation: Pulse Input: TTL compatible 0.01 to 20.0 GHz: Square wave modulation up to 30 kHz 0.01 to 2.5 GHz Rise/Fall Time: 15 nsec, typical Minimum RF Pulse Width, typical Internally Leveled: 1 µsec Unleveled (power set to +20 dBm): 200 nsec 2.5 to 26.5 GHz Rise/Fall Time: 10 nsec, typical Minimum RF Pulse Width, typical Internally Leveled: 1 µsec Unleveled (power set to +20 dBm): 100 nsec On/Off Ratio: >80 dB, typical

General Specifications:
Minimum Sweep Time: 10 ms (single band) 30 ms (full band)
Auxiliary Output Rear Panel: 2.3 to 7 GHz Fundamental Oscillator Output: 0 dBm, nominally
Frequency Reference Output: 1 V/GHz ±25 mV, <=18 GHz 0.5 V/GHz ±25 mV, <=26.5 GHz
RF Output Connector: Type APC 3.5, male
Net Weight: 6 kg (13.2 lb)
Shipping Weight: 9.2 kg (20 lb)
Furnished: Operating/service manual SMA (f) to type-N (f) adapter