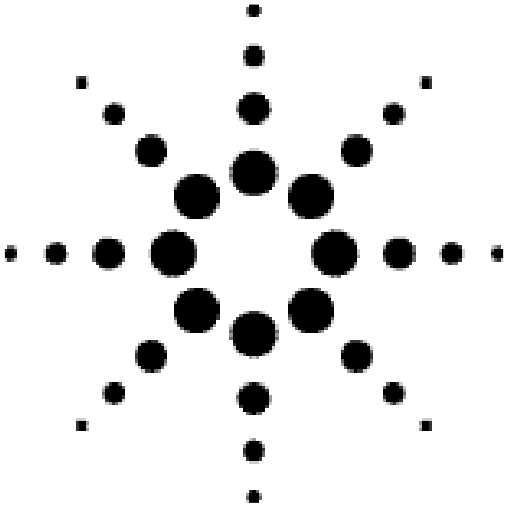

83592A RF Plug-in for the Agilent 8350B, 10 MHz to 20 GHz (Discontinued - Support Information Only)

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
Full Band: 0.01 to 20 GHz
Accuracy (25° ±5°C) CW Mode Band 0: ±5 MHz
Band 1: ±5 MHz
Band 2: ±10 MHz
Band 3: ±10 MHz
All Sweep Modes Band 0: ±15 MHz
Band 1: ±20 MHz
Band 2: ±25 MHz
Band 3: ±30 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
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
Full Band: ±600 kHz/°C, typical
With 10 dB Power Change: Band 0: ±200 kHz/°C
Band 1: ±200 kHz/°C
Band 2: ±400 kHz/°C
Band 3: ±600 kHz/°C
Full Band: ±600 kHz/°C
With 3:1 Load SWR: Band 0: ±100 kHz/°C
Band 1: ±100 kHz/°C
Band 2: ±200 kHz/°C
Band 3: ±300 kHz/°C
Full Band: ±300 kHz/°C

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Output Characteristics:
Maximum Leveled Power:(25°C) Normal: Band 0: 10 mW
Band 1: 10 mW
Band 2: 10 mW
Band 3: 10 mW
Full Band: 10 mW
Option 002: Band 0: 10 mW
Band 1: 7.0 mW
Band 2: 6.3 mW
Band 3: 5.0 mW
Full Band: 5.0 mW
Power Level Accuracy: Band 0: ±1.5 dB
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: Band 0: <-25 dBc
Band 1: <-25 dBc
Band 2: <-25 dBc
Band 3: <-25 dBc
Full Band: <-25 dBc
Output Power Resolution Displayed: 0.1 dB Programmable/Settable: 0.01 dB
Minimum Settable Power: -2 dBm Option 002: (-72 dBm with)
Power Sweep Calibrated Range: >12 dB Option 002: >9 dB

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, typical Input Impedance: @ 2 kohms
External Pulse Modulation Pulse Input: TTL 0.01 to 20 GHz: Square wave modulation up to 30 kHz 0.01 to 2.5 GHz Rise/Fall Time: 15 nsec, typical Minimum RF Pulse Width Internally Leveled: 1 µsec, typical Unleveled (power set to +20 dBm): 200 nsec 2.5 to 20 GHz Rise/Fall Time: 10 nsec, typical Minimum RF Pulse Width Internally Leveled: 1 µsec, typical Unleveled (power set to +20 dBm): 100 nsec On/Off Ratio: >30 dB, typical

General Specifications:
Minimum Sweep Time: 10 ms (single band) 25 ms (full band)
Auxiliary Output Rear Panel: 2.3 to 7 GHz Fundamental Oscillator Output: 0 dBm, nominally
Frequency Reference Output: 1 V/Hz (0.01 to 18 GHz) 0.5 V/GHz (0.01 to 20 GHz) ±25 mV
RF Output Connector: Type-N, female
Net Weight: 6.0 kg (13.2 lb)
Shipping Weight: 9.2 kg (20 lb)
Furnished: Operating/service manual