



83592B RF Plug-in for the Agilent 8350B, 10 MHz to 20 GHz, +13 dB (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 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, $\pm 0.5\%$ of sweep width

Band 1: ± 20 MHz, $\pm 0.5\%$ of sweep width

Band 2: ± 25 MHz, $\pm 0.5\%$ of sweep width

Band 3: ± 30 MHz, $\pm 0.5\%$ of sweep width

Full Band: ± 50 MHz, $\pm 0.5\%$ of sweep width

Stability With Temperature Band 0: ± 200 kHz/ $^{\circ}$ C, typical

Band 1: ± 200 kHz/ $^{\circ}$ C, typical

Band 2: ± 400 kHz/ $^{\circ}$ C, typical

Band 3: ± 600 kHz/ $^{\circ}$ C, typical

Full Band: ± 600 kHz/ $^{\circ}$ C, typical

With 10 dB Power Change: Band 0: ± 200 kHz/ $^{\circ}$ C

Band 1: ± 200 kHz/ $^{\circ}$ C

Band 2: ± 400 kHz/ $^{\circ}$ C

Band 3: ± 600 kHz/ $^{\circ}$ C

Full Band: ± 600 kHz/ $^{\circ}$ C

With 3:1 Load SWR: Band 0: ± 100 kHz/ $^{\circ}$ C

Band 1: ± 100 kHz/ $^{\circ}$ C

Band 2: ± 200 kHz/ $^{\circ}$ C

Band 3: ± 300 kHz/ $^{\circ}$ C

Full Band: ± 300 kHz/ $^{\circ}$ C

Output Characteristics:

Maximum Leveled Power: Normal: Band 0: 20 mW

Band 1: 20 mW



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Band 2: 20 mW
Band 3: 20 mW (13.5 to 18.6 GHz) 10 mW (18.6 to 20.0 GHz)
Full Band: 10 mW Option 002: Band 0: 15.8 mW
Band 1: 14.1 mW
Band 2: 12.6 mW
Band 3: 10 mW (13.5 to 18.6 GHz) 5 mW (18.6 to 20.0 GHz)
Full Band: 5 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: < -20 dBc
Band 1: < -25 dBc
Band 2: < -25 dBc
Band 3: < -25 dBc
Full Band: < -20 dBc
Output Power Resolution Displayed: 0.1 dB Programmable/Settable: 0.01 dB
Minimum Settable Power: -2 dBm (-72 dBm with Option 002)
Power Sweep Calibrated Range: > 12 dB (> 9 dB with Option 002)

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 μ sec, 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 μ sec, typical Unleveled (power set to +20 dBm): 100 nsec On/Off Ratio: $\gg 30$ 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 kg (13.2 lb)

Shipping Weight: 9.2 kg (20 lb)

Furnished: Operating/service manual