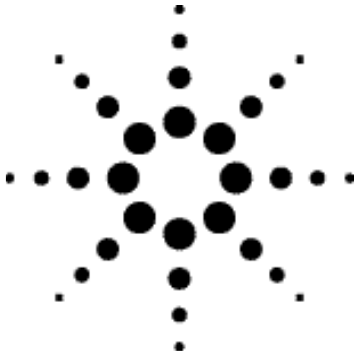




METAF

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83592C RF Plug-in for the Agilent 8350B, 10 MHz to 20 GHz, Low Harmonics (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: ± 15 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 MHz/ $^{\circ}$ 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 MHz/ $^{\circ}$ C

With 3:1 Load SWR: Band 0: ± 100 kHz

Band 1: ± 100 kHz

Band 2: ± 200 kHz

Band 3: ± 300 kHz

Full Band: ± 300 MHz



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Output Characteristics:

Maximum Leveled Power: Normal: Band 0: 10 mW

Band 1: 4 mW

Band 2: 4 mW

Band 3: 4 mW

Full Band: 10 mW

Option 002: Band 0: 10 mW

Band 1: 3.2 mW

Band 2: 2.5 mW

Band 3: 2.2 mW

Full Band: 1.4 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: ± 1.4 dB

Spurious Signals: Harmonics and Subharmonics Band 0: 0.01 to 1.5 GHz, < -25 dBc

Band 1: < -45 dBc (< -20 dBc typical)

Band 2: < -45 dBc (< -20 dBc typical)

Band 3: 14 to 20 GHz < -45 dBc

Band 4: 26.5 to 40 GHz < -20 dBc

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

Minimum Settable Power: -5 dBm (-60 dBm with Option 002)

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

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: < 1.06 GHz 1 V/GHz $\pm 2.5\%$ of reading: 1.0 to 18 GHz

RF Output Connector: Type-N, female

Net Weight: 7.1 kg (15.7 lb)

Shipping Weight: 10.2 kg (22.5 lb)

Furnished: Operating/service manual