

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, ±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, $\pm 0.5\%$ 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 MHz/°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 MHz/°C With 3:1 Load SWR: Band 0: ±100 kHz Band 1: $\pm 100 \text{ kHz}$ Band 2: ±200 kHz Band 3: ±300 kHz Full Band: ±300 MHz



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 Opt ion002) 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 ±2.5% of reading: 1.0 to 18 GHz **RF Output Connector:** Type-N, female **Net Weight:** 7.1 kg (15.7 lb) **Shippingt Weight:** 10.2 kg (22.5 lb) **Furnished:** Operating/service manual

