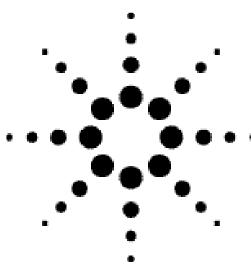


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Data Sheet



83595C RF Plug-in for the Agilent 8350B, 10 MHz to 26.5 GHz, +13 dBm (Discontinued - Support Information Only)

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 (for sweep times >100 ms) 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, $\pm 0.5\%$ 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, $\pm 0.5\%$ 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

Band 4: ±800 kHz/°C, typical

Full Band: ±800 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: $\pm 600 \text{ kHz/}^{\circ}\text{C}$

Band 4: ±800 kHz/°C

Band 5: $\pm 800 \text{ kHz/}^{\circ}\text{C}$

With 3:1 Load SWR: Band 0: ±100 kHz/°C

Band 1: $\pm 100 \text{ kHz/°C}$

Band 2: $\pm 200 \text{ kHz/}^{\circ}\text{C}$



Band 3: ±300 kHz/°C Band 4: ±400 kHz/°C Full Band: ±400 kHz/°C

Output Characteristics:

Maximum Leveled Power: Normal Band 0 to 3: 20 mW

Band 4: 10 mW Full Band: 10 mW

Option 002 Band 0: 20 mW

Band 1: 15.8 mW Band 2: 15.8 mW Band 3: 15.8 mW Band 4: 6.3 mW Full Band: 6.3 mW

Power Level Accuracy: Band 0: ±1.5 dB (±1.7 dB Option 002)

Band 1: ±1.3 dB (±1.5 dB Option 002) Band 2: ±1.3 dB (±1.5 dB Option 002) Band 3: ±1.4 dB (±1.6 dB Option 002) Band 4: ±1.7 dB (±1.9 dB Option 002) Full Band: ±1.8 dB (±2.0 dB Option 002)

Spurious Signals: Harmonics and Subharmonics: Band 0: <-25 dBc at <1.5 GHz; <-50 dBc at >1.5 GHz

Band 1: <-50 dBc Band 2: <-50 dBc Band 3: <-50 dBc Band 4: <-50 dBc Full Band: <-25 dBc

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

Minimum Settable Power: -2 dBm (-62 dBm with Option 002)

Power Sweep: Calibrated Range: >9 dB (>6 dB with Option 002) Accuracy: ±1.5 dB, typical

Residual AM in 100 kHz Bandwidth: -50 dBc, typical

Modulation Characteristics:

External AM Frequency Response: 100 kHz, typical 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 (cross-over coupled) ±12 MHz (direct coupled) 100 Hz to 1 MHz: ±7 MHz 1 MHz to 2 MHz: ±5 MHz 2 to 10 MHz: ±1 MHz

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 (0.01 to 18 GHz) 0.5 V/GHz ±25 mV (0.01 to 26.5 GHz)

RF Output Connector: Precision 3.5 mm, male

Net Weight: 6 kg (13.2 lb) Shipping Weight: 9.2 kg (20 lb)

