



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

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, $\pm 0.5\%$ 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

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/ $^{\circ}$ C, typical

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

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

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

Band 4: ± 800 kHz/ $^{\circ}$ C, typical

Full Band: ± 800 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

Band 4: ± 800 kHz/ $^{\circ}$ C

Band 5: ± 800 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



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Band 3: ± 300 kHz/ $^{\circ}$ C
Band 4: ± 400 kHz/ $^{\circ}$ C
Full Band: ± 400 kHz/ $^{\circ}$ 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)



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