



# 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:  $\pm 5$  MHz

Band 1:  $\pm 5$  MHz

Band 2:  $\pm 10$  MHz

Band 3:  $\pm 10$  MHz

Band 4:  $\pm 12$  MHz

All Sweep Modes (for sweep times  $>100$  ms) Band 0:  $\pm 15$  MHz

Band 1:  $\pm 20$  MHz

Band 2:  $\pm 25$  MHz

Band 3:  $\pm 30$  MHz

Band 4:  $\pm 35$  MHz

Full Band:  $\pm 50$  MHz

Frequency Markers Band 0:  $\pm 15$  MHz,  $\pm 0.5\%$  of sweep width

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

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

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

Band 4:  $\pm 35$  MHz,  $\pm 0.5\%$  of sweep width

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

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

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

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

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

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

Full Band:  $\pm 800$  kHz/ $^{\circ}$ C, typical

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

Band 1:  $\pm 200$  kHz/ $^{\circ}$ C

Band 2:  $\pm 400$  kHz/ $^{\circ}$ C

Band 3:  $\pm 600$  kHz/ $^{\circ}$ C

Band 4:  $\pm 800$  kHz/ $^{\circ}$ C

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

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

Band 1:  $\pm 100$  kHz/ $^{\circ}$ C

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



**Agilent Technologies**

Band 3:  $\pm 300$  kHz/ $^{\circ}$ C  
Band 4:  $\pm 400$  kHz/ $^{\circ}$ C  
Full Band:  $\pm 400$  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:  $\pm 1.5$  dB ( $\pm 1.7$  dB Option 002)

Band 1:  $\pm 1.3$  dB ( $\pm 1.5$  dB Option 002)

Band 2:  $\pm 1.3$  dB ( $\pm 1.5$  dB Option 002)

Band 3:  $\pm 1.4$  dB ( $\pm 1.6$  dB Option 002)

Band 4:  $\pm 1.7$  dB ( $\pm 1.9$  dB Option 002)

Full Band:  $\pm 1.8$  dB ( $\pm 2.0$  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:  $\pm 1.5$  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:  $\pm 75$  MHz (cross-over coupled)  $\pm 12$  MHz (direct coupled) 100 Hz to 1 MHz:  $\pm 7$  MHz 1 MHz to 2 MHz:  $\pm 5$  MHz 2 to 10 MHz:  $\pm 1$  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  $\pm 25$  mV (0.01 to 18 GHz) 0.5 V/GHz  $\pm 25$  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)



**Agilent Technologies**