*precision*Wave Corporation
*p*1211B RF Signal Generator
Technical Data



Description

The precisionWave *p*1211B is an economical focused performance, modulated RF signal generator covering the primary cellular bands of 800 MHz – 1000 MHz and 1700 MHz – 2200 MHz. The instrument has a wide power output range, -100 dBm to +20 dBm, coupled with excellent phase noise performance, and is an ideal source of very high accuracy EDGE, GSM, IS-95 (CDMA One), NADC, PHS, WCDMA, etc. signals.

The *p*1211B is externally modulated and includes a highly stable 10 MHz internal frequency reference.

The source is 19" rack mountable, requiring only 3U (5 ¼") of vertical rack space.

These features, combined with fully electronic switching and powerful LAN programmability make the *p*1211B the right choice for high speed, high volume, and high accuracy ATE applications.

Key Specifications

Frequency Characteristics
- *800 MHz to 1000 MHz*
- *1700 MHz to 2200 MHz*

Resolution, *1 Hz*
Settling Time,
- Within 100Hz, 5 ms

Power Characteristics
- *-100 dBm to +20 dBm*
- *Resolution, 0.1 dB*
- *Accuracy, ± 0.2 dB after cal.*
- *Settling Time*
  - *Within 0.1 dB in 2.5 ms*

Harmonics, < *-30 dBc*
Non-harmonics, < *-50 dBc*

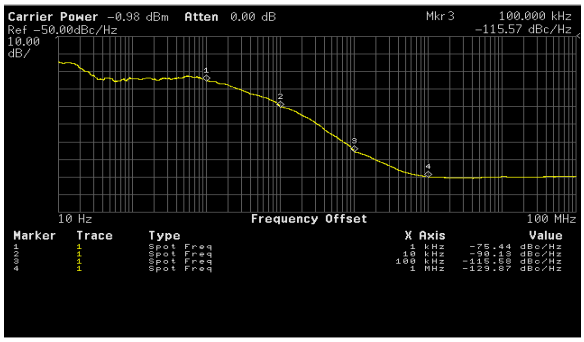
Modulation Accuracy
- *EDGE EVM, 1.5%*
- *GSM Phase Error, 1°*
- *IS-95 Rho, 0.999*
- *NADC EVM, 1%*
- *PHS EVM, 1%*
- *WCDMA EVM, 2%*

Quadrature-phase and in-phase modulated input signals
- *Level, 0.35 V peak*
- *Impedance, 50 Ω*
- *Frequency, 12 MHz max.*

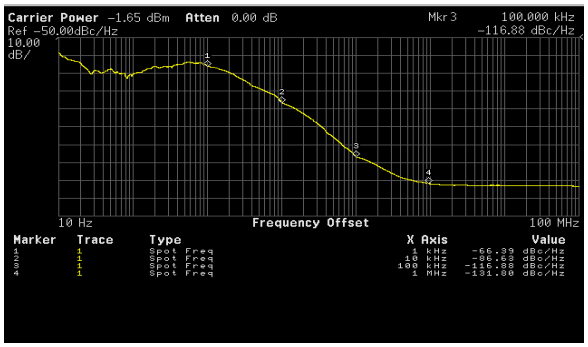
10 MHz reference clock input
- *Frequency, 10 MHz*
- *Level, 0.1 V rms to 2 V rms*
- *Type, bipolar sinusoid*
- *Impedance, 200 Ω*

10 MHz reference clock output
Frequency, 10 MHz
Level, 0.1 V rms to 0.5 V rms
Impedance, 50 Ω

Phase Noise
-90 dBc/Hz at 20 kHz offset
-115 dBc/Hz at 100 kHz offset



Typical 800 MHz phase noise performance.



Typical 2200 MHz phase noise performance.

Warranty

The *p*1211B is fully warranted for one year from the initial service date of the instrument.

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