# **Diarcy Technologies**

Low-Cost 10 MHz Frequency Standard, GPS Disciplined with Optional PPS Output

Providing Electronic Solutions for Today's Difficult Problems

#### **Electronic Specifications**

Frequency Output: 10.000000 MHz Frequency Accuracy: < 10 ppb (parts per billion), typ. Internal Oscillator: Stratum III OCXO Standard Output Power: 0 dBm ± 1 dB into 50Ω

Warm-Up Time: < 10 minutes Spurious Signals: > 50 dBc, 65 dBc, typ. Harmonics: > 50 dBc, 65 dBc, typ.

#### Description

The DS-1000 is a low-cost, highly-accurate 10MHz frequency source which can be used as a Calibration Standard, Laboratory Signal Generator, Synchronization Source, Cellular Base Station Reference, Phased-Locked Loop Reference Signal, and more.

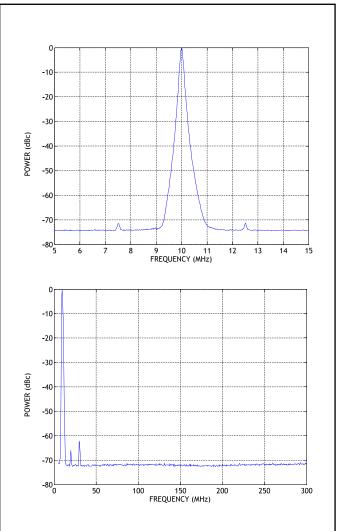
The DS-3000 adds a logic-level PPS output.

Accuracy is limited by GPS timing accuracies, typically resulting in better than 10 parts per billion (0.1Hz out of 10MHz). Visual indicators show GPS and unit status.

#### **Custom Options**

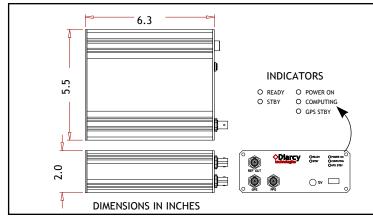
Standard Power Output: 0 dBm into  $50\Omega$ Available Power Output: -10 dBm to +10 dBm into  $50\Omega$ Multiple Outputs: 3 or 5 Rear Outputs. Other configurations available -- please call. Optional PPS Output: 3.3V or 5V logic-level at 24mA, min.

#### Typical Spectral Responses



DS-1000/DS-3000

## Enclosure Outline & Physical Specifications



Power Supply: 11 to 14 VDC Supply Current: < 300 mA at 12 VDC (warm-up) Power Jack: 2.1mm/5.5mm DC Jack AC Power Adapter included

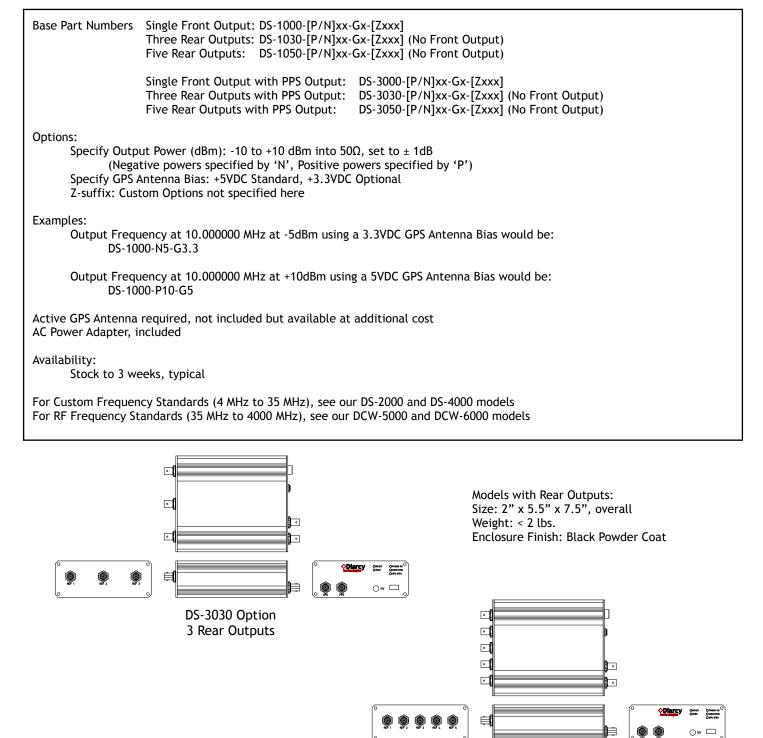
GPS Antenna Bias: 5 VDC at 120 mA, max. (3.3 VDC, opt.). GPS Active Antenna required (not included, but available) RF Connectors: BNC Jack (RF Output, PPS Output, GPS Input)

Size: 2" x 5.5" x 7", overall Weight: < 2 lbs. Enclosure Finish: Black Powder Coat

For ordering information, contact Diarcy Technologies D Austin, TX 78727 USA +1.512.238.6840 D Skype: diarcy.technologies D contact\_us@diarcy.com D www.diarcy.com

# DS-1000/DS-3000 Low-Cost 10 MHz Frequency Standard, GPS Disciplined with Optional PPS Output

## Ordering Information and Options



DS-3050 Option 5 Rear Outputs

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