

Providing Electronic Solutions for Today's Difficult Problems

Electronic Specifications

Standard Frequency Output: 10.000000 MHz
Initial Frequency Accuracy: < 10 ppb (parts per billion), typ.
Internal Oscillator: Stratum III OCXO
Standard Output Power: 0 dBm \pm 1 dB into 50 Ω
Frequency Aging: < \pm 0.75 ppm 1st year; < \pm 4.5 ppm 10th year
Warm-Up Time: < 30 minutes
Spurious Signals: > 50 dBc, 65 dBc, typ.
Harmonics: > 50 dBc, 65 dBc, typ.

Description

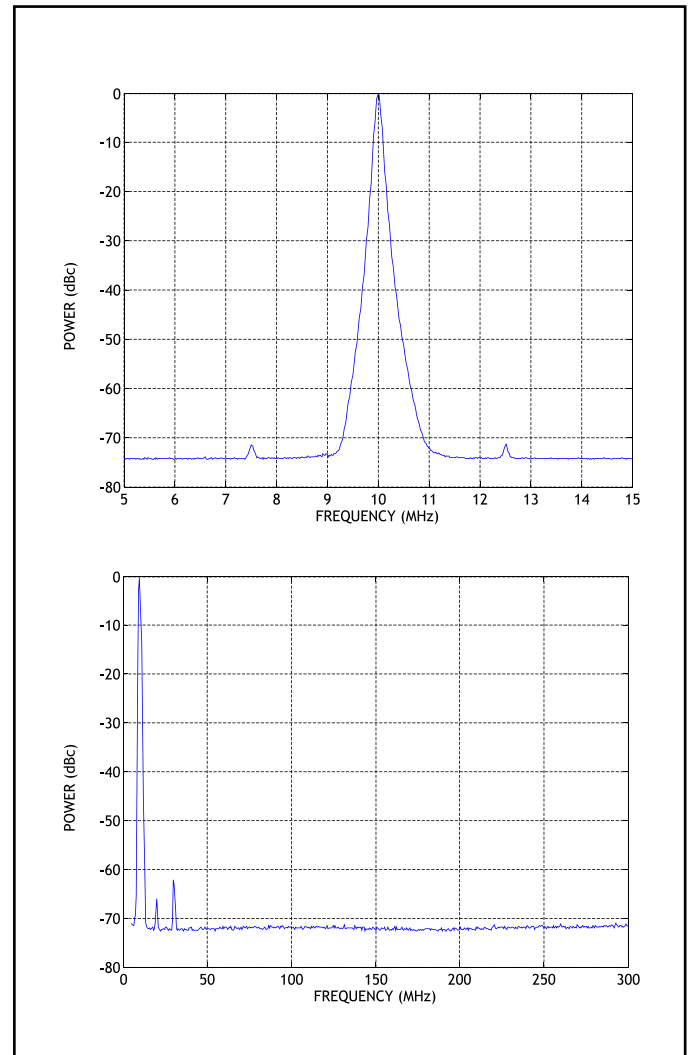
The FR-1100 is a low-cost, highly-accurate 10MHz frequency source which can be used as a Calibration Standard, Laboratory Signal Generator, Synchronization Source, Cellular Base Station Reference, Phased-Locked Loop Reference Signal, and more. Frequency is calibrated before shipping. No GPS signal is required for operation.

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

Custom Options

Standard Power Output: 0 dBm into 50 Ω
Available Power Output: -10 dBm to +10 dBm into 50 Ω
Multiple Outputs: 3 or 5 Rear Outputs. Other configurations available -- please call.

Typical Spectral Responses



Enclosure Outline & Physical Specifications

INDICATORS

- READY
- STBY
- POWER ON
- 2V

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

RF Connector: BNC Jack (RF Output)

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

For ordering information, contact Diarcy Technologies □ 3804 Tamarack Trail, Austin, TX 78727 USA
+1.512.238.6840 □ Skype: diarcy.technologies □ contact_us@diarcy.com □ www.diarcy.com

Ordering Information and Options

Base Part Numbers Single Front Output: FR-1000-[P/N]xx-[Zxxx]
 Three Rear Outputs: FR-1030-[P/N]xx-[Zxxx] (No Front Output)
 Five Rear Outputs: FR-1050-[P/N]xx-[Zxxx] (No Front Output)

Options:
 Specify Output Power (dBm): -10 to +10 dBm into 50Ω, set to ± 1dB
 (Negative powers specified by 'N', Positive powers specified by 'P')
 Z-suffix: Custom Options not specified here

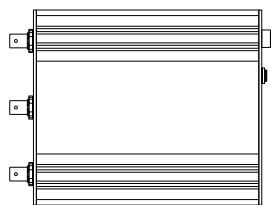
Examples:
 Output Frequency at 10.000000 MHz at -5dBm would be:
 FR-1000-N5

 Output Frequency at 10.000000 MHz at +10dBm would be:
 FR-1000-P10

AC Power Adapter, included

Availability:
 Stock to 3 weeks, typical

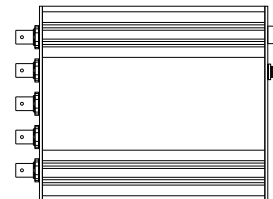
For GPS-disciplined 10.000000 MHz Frequency Standards, see our DS-1000 models
 For Frequency Standards (4 to 35 MHz), see our FR-2000 and DS-2000 models



FR-1030 Option
 3 Rear Outputs



Both Model Options:
 Size: 2" x 5.5" x 7.25", overall
 Weight: < 2 lbs.
 Enclosure Finish: Black Powder Coat



FR-1050 Option
 5 Rear Outputs

