What makes the GPSD-2 10MHz Reference Different ?

GPS Disciplined Frequency Reference GPSD-2 module

Low Cost Low Consumption Stable Oven Controlled Crystal Oscillator (OCX0) with Neo6 GPS Receiver and Arduino Nano. Stable firmware from popular GPSD-1 (SOLD OUT).

- **Low cost   High Stability**

- **Fast Warm-up   OCXO   < 10ppb after 5min**

- **GPS disciplined to better than 5ppb**

- **Last GPS calibration applied at start-up < 10ppb after OCXO warm-up**

- **Outputs > +0 dBm   Other levels and Fifth output available as option**

- **Sine   Square as option**

- **Wide range power supply 12 to 28 Vdc or USB 2.0 3.0 (5V 1A max)**

- **Low power startup   <500mA @12V   <300mA @26V**

- **Low power Consumption   <150mA @12V   <250mA @26V**

- **Previous calibration values used at start-up. No wandering or instability**

- **No GPS discipline until after start-up delay and valid GPS lock**

- **Frequency is measured against GPS 1PPS timing pulses over 30 sec periods**

- **No "coarse" discipline adjustments applied until large error confirmed**

- **Frequency for "fine" calculated over ten count periods (rolling error)**

- **"Fine" discipline adjustments applied in steps transparent to digital operation**

- **LED status indicators for Power; GPS valid; Frequency accuracy; and Reference locked**

- **USB serial NMEA RMC sentences 9600 baud for time, location, and bearing calculation**

- **Quasi RS-232 Serial NMEA RMC 9600 Baud for IC9700 (and others) time and position**

- **Provides supply for active GPS antenna**

- **Packaged in extruded aluminium enclosure**