

## **NR7000-P *pico*POD**

### **Synthesized PPS Source**



The NR7000-P *pico*POD is a high-performance PPS source in an ultra-compact package that affords simple system integration.

The *pico*POD is just 2"x2"x0.9" and requires only a 5 Vdc source. PPS synthesized from the OCXO at 3.3 Vdc.

#### **Low Power Consumption**

Steady state power < 0.6W. With a single 5V input, the *pico*POD provides active antenna power at 3.5V (35mA).

#### **Programmable PPS**

PPS pulse width is programmable from 1 to 500ms in 1ms steps. Other frequencies available as synthesized from 250 MHz- from sub-1 Hz to 25 MHz

## Technical Specifications

| PPS                        |   |
|----------------------------|---|
| Amplitude for 1PPS         | 3.3 Vdc CMOS (5 Vdc option) 500 Ohm Load                |
| Pulse width for 1PPS       | Programmable 1 to 500ms in 1 ms steps                   |
| Rise time for 1PPS         | <5ns  |
| Connector                  | sma   |
| Load Impedance             | 500 Ohm   |
| Location                   | Side Connector  |
| Remote interface & control |   |
| Protocol                   | RS232 NMEA-0183 ( $\pm 5$ Volt)                         |
| Connector                  | On ten pin connector (" (Samtec IPL1-105-01-L-D-RA-K)   |
| Location                   | side panel  |
| Protocol                   | Bit plus stop   |
| Standard Baud Rates        | Selectable: 9600, 19200, 38400, 57600 or 115200 bps     |
| Power                      | 5 to 6 VDC Peak power < 3 watts, steady state < 2 watts |
| Power connector            | On ten pin connector (" (Samtec IPL1-105-01-L-D-RA-K)   |
| Mounting                   | 4 -#2-56 threaded mounting inserts                      |
| Chassis                    | Aluminium chassis                                       |

## Environmental and Mechanical

|                       |   |
|-----------------------|---|
| Operating temperature | -20 to 50°C non-condensing (extended temperature range available) |
| Storage temperature   | -40 to 70°C   |
| Width                 | 2"  |
| Depth                 | 2" (exclusive of connectors)                                      |
| Height                | 0.9"  |
| Weight                | <3 oz   |

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