

## GPS Disciplined Rubidium Oscillator

### Specification



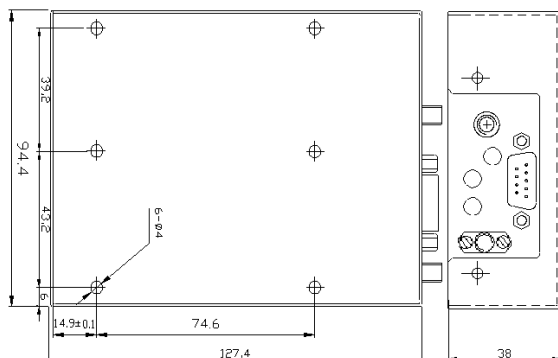
### Features

- ◆ Low Phase Noise
- ◆ High Short-term Stability
- ◆ Low distortion 10MHz Sine & 1PPS outputs
- ◆ RS-232C Digital Monitor & Control

<b>Output:</b>	10MHz sine 10~13dBm into 50 Ω, 1PPS
<b>10MHz: Accuracy:</b>	Disciplined to GPS <1E-12 (24hour average)
	Holdover (no GPS): 5E-11/month
	Shipment: ±5E-11
<b>Short Term Stability:</b>	3E-11/1S
	1E-11/10S
	3E-12/100S
<b>Phase to Noise(SSB):</b>	-100dBc/Hz@10Hz
	-130dBc/Hz@100Hz
	-140dBc/Hz@1KHz
	-40dBc
<b>Harmonics:</b>	
<b>Spurious:</b>	-80dBc ±100KHz
<b>Temperature Stability:</b>	6E-10 over -20 to +50°C
<b>Warm-Up</b>	7 minutes to lock @ 25°C
<b>Retrace:</b>	≤ ±2E-11
<b>Earth Magnetic Field Sensitivity:</b>	±2E-11
<b>Frequency Control: (Digital):</b>	3E-7
<b>Amplitude</b>	>3V
<b>Pulse Width</b>	>1 μs
<b>Rise Time</b>	<10ns
<b>Input Voltage Range:</b>	11.4 to 18Vdc
<b>Input Power:</b>	12Vdc/ 0.6A at @25°C, Max 1.7A
<b>Operating Temp. Range:</b>	-20°C ~ +50°C
<b>Storage Temperature:</b>	-40°C ~ +70°C
<b>MTBF:</b>	100,000 hours
<b>Connector:</b>	DB-9 Connector, SMA
<b>Size:</b>	38×94×127 (mm <sup>3</sup> ) (450cc)
<b>Weight:</b>	
<b>Warranty:</b>	24 months

### 1PPS:

### Size and Dimension:



### Connector

**J1:**SMA, ANT **J3:** SMA,RF OUTPUT

**J2:**DB-9

1:lock monitor	7: +12V
2:dc return/ground	8:1PPS out
3:RxD	9:Lock Signal monitor
4:TxD	5&6:NC

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