

Low Profile Rubidium Oscillator

- High Performance Reference
 - Three year warranty
 - 24V dc 13W
 - Excellent stability & drift out to 1hr & 1day
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The A10-LPRO is a compact cost effective OEM Low Profile Rubidium Oscillator Frequency Standard that maintains the high time & frequency accuracy demanded in applications such as telecoms, aviation, nautical and precision test & measurement. Ideal for mission critical applications. A current production replacement for earlier products. These references maintain high time and frequency accuracy required for demanding applications.

Features

- 10MHz Output
- Stability $3 \times 10^{-12}/100s$
- Ageing: $5 \times 10^{-10}/year$
- 100dBc/Hz @ 10Hz phase noise

Benefits

- Simple integration into systems
- Fits 1U case
- Low Failure risk

Applications

- Telecom Network Synchronisation
 - Frequency Calibration
 - Broadcast
 - Cellular Wireless Base Stations
 - Design in frequency reference
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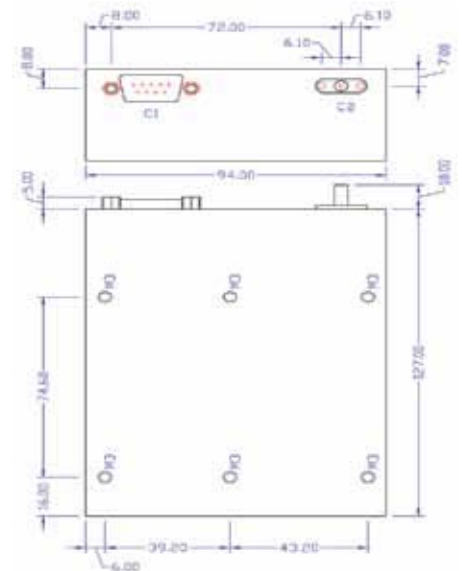
Standard Specification

Output	10MHz, +7dBm into 507 OHMS, 5V RMS	
Adjustment		
Mechanical range	2x10 ⁻⁹ min	
Electrical range	2x10 ⁻⁹ min	
Control range	0-5V	
Factory setting	±5x10 ⁻¹¹	
Frequency Stability	1s	3x10 ⁻¹¹
	10s	1x10 ⁻¹¹
	100s	3x10 ⁻¹²
	1 day	1x10 ⁻¹¹
Aging	1 day	3x10 ⁻¹²
	1 month	4x10 ⁻¹¹
	1 year	5x10 ⁻¹⁰
Phase noise	10Hz	100dBc
	100Hz	120dBc
	1000Hz	140dBc
	10000Hz	145dBc
Harmonics	<40dBc	
Spurious	<80dBc	
Warm time to 1x10⁻⁹	5 minutes	
Retrace after 24h off and 1h on, same temp	<3x10 ⁻¹¹	
Power Supply Power at steady state at 25°C Freq offset over output voltage range	13W @ 24V (22-30Vdc) @ 25°C, Max 2A <2x10 ⁻¹¹	
Temperature Operating Storage Freq offset over operating temperature range	-20°C – +50°C -40°C – +70°C <3x10 ⁻¹⁰	
Magnetic Field Sensitivity Atmospheric Pressure Approx MTBF, Stationary	<2x10 ⁻¹¹ /Gauss -60m – 4000m <1x10 ⁻¹³ /mbar 100,000Hrs	
Mechanical	38 (40 RS232 version) x 94 x 127mm, 650g max 1.5" (1.57" RS232 version) x 3.7 x 5", 23oz max	

Pin Connections

- C1: 'D' 9 Pin Male
C2: SMA RF Output
1. Lock Monitor (BIT)
 2. DC Return
 3. Case
 4. N/C
 5. Ext 'C' Field Voltage (0-5V)
 6. N/C
 7. DC Power (+24V)
 8. VCXO CV Monitor
 9. Lamp (Light) Monitor

Dimensions



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