

High Performance Rubidium Oscillator

- High Performance Reference
 - Three Year Warranty
 - 24Vdc 13W
 - Excellent Stability & drift
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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 $1.5 \times 10^{-12}/100s$
- Ageing $3 \times 10^{-12}/Day$

Benefits

- Simple integration into systems
 - Fits 1U case
 - Low failure
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Applications

- Telcom network synchronisation
- Frequency calibration
- Broadcast
- Cellular wireless base stations
- Design in frequency reference

Specification	A10-HPRO
Type	OEM
Output	
Frequency	10MHz
Level	7dBm ±2dBm 50ohms
Number	1
Connector	EMI filter pins
Frequency Accuracy	5.00E-11
Adjustment	
Mechanical Range	2.00E-09
Electrical Range	2.00E-09
Control Range	0 - 5Vdc
Frequency Stability	
1s	1.50E-11
10s	5.00E-12
100s	1.50E-12
1000s	2.00E-11
Aging	
1 day	3.00E-12
1 month	4.00E-12
1 year	5.00E-10
Phase Noise dBc/Hz in 1Hz BW	
1Hz	-75dBc/Hz
10Hz	-89dBc/Hz
100Hz	-125dBc/Hz
1kHz	-140dBc/Hz
10KHz	-147dBc/Hz
Harmonics	<-50dBc
Spurious	<-75dBc
Start Up (Warm) Time to lock	<8 Minutes
Retrace	
24h off 1h on same temp	2.00E-11
Power Supply	
DC	24Vdc ±0.5Vdc
Power Consumption @ 25°C	
Warm Up	38W @ 25°C
Stabilized	15W @ 25°C
Temperature	
Operating	-25°C to +50°C
Storage	-55°C to +85°C
Humidity	90% (Non Condensing)
MTBF	100,000 hours
Mechanical	
Connector	EMI filter pins
Colour	Aluminium
Dimension	94 x 127 x 38 mm
Dimension Packed	270 x 160 x 85mm
Weight	0.6kg

Connector: J1: EMI filter Array

Connector Pin Out

1. 10MHz RF Output
2. GND (for RF Output)
3. LAMP status
4. GND (for chassis)
5. RXD (option)
6. Lock
7. VCO
8. Power Return GND
9. TXD (option)
10. +24V dc

