Quartzlock A10-HPRO

High Performance Rubidium Oscillator

- High Performance Reference
- Three Year Warranty
- 24Vdc 13W
- Excellent Stability & drift

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 x 10^{-12}/100s
- Ageing 3 x 10^{-12}/Day

Benefits

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

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 @ 25ºC		
	Warm Up	38W @ 25ºC
	Stabilized	15W @ 25ºC
Temperature		
	Operating	-25ºC to +50ºC
	Storage	-55ºC to +85ºC
	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