

Portable 10MHz Rubidium Frequency Reference



Description

The Quartzlock A10-XLB Rubidium Frequency Reference is a 10 MHz high stability standard with completely portable and multiple power supply options.

Features

- Low Phase Noise
- Low Drift
- High Stability
- 3 Year Warranty

- Internal Li Ion Rechargable Battery
- Internal Battery Charger
- External 12Vdc & 24Vdc operation
- External ac operation & charging
- 4 hours battery operation
- Full battery back-up redundant supply operation

Applications:

- Field Systems & Test Solutions
- Field Frequency Reference
- Portable Frequency Standard
- W-CDMA Wireless Transmitter Ref.
- HDTV Transmitter Reference



Portable 10MHz Rubidium Frequency Reference

Output	10MHz sine 0.7V rms into 50 ohms
Accuracy	±5x10 ⁻¹¹ at shipment @25°C
Phase Noise (SSB)	-100dBc (10Hz)
	-120 dBc (100Hz) -140 dBc (1KHz)
Input Power	13W at 24V@25°C, Max 2A
Input Voltage Range	(see options) 22 to 30Vdc
Warm Time	5 minutes to lock @ 25°C
Retrace	±3x10 ⁻¹¹
Frequency Control Internal trim rang External trim rang	· · · ·
Short term stability	3x10 ⁻¹¹ /1s 1x10 ⁻¹¹ /10s 3x10 ⁻¹² /100s /hour
Aging	3x10 ⁻¹² /day 4x10 ⁻¹¹ /month 5x10 ⁻¹⁰ /year
Harmonics Second Harmonic Third Harmonic	c -48 dBc -45 dBc
Frequency Drift	3x10 ⁻¹² /day, 3x10 ⁻¹¹ /month
Status Monitors	Lock and On LEDs
Operating Temp. Ra	nge -20°C to +50°C
Temperature Coeffic	ient (ambient) 3x10 ⁻¹⁰ (-20° to 50°C)
Storage Temperature	e -40° to 70°C
MTBF	100,000 hours
RF Connector	BNC
Power Supply	
	third generation lithium ion prismatic

high capacity 24Vdc supply that will operate the A10-XLB for 4 hours. External charger provided.

Size	222x215x57mm
Weight	1.75Kg
Warranty (excluding battery)	3 years
OPTION 01	
Multiple Power Supplies	
Ext 12Vdc or 24Vdc supply. 90-240V	ac input.
Redundant battery back-up operation	

Applications:

- Field Systems & Test Solutions
- Field Frequency Reference
- Portable Frequency Standard
- W-CDMA Wireless Transmitter Ref.
- HDTV Transmitter Reference
- "Supply Noise Immune" Source



• A padded carrying bag is optional All inputs and outputs are on the front panel

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