Quartzlock **A10-X**

10MHz Rubidium Oscillator

Applications:
Frequency Reference
Calibration
Frequency Standard
Fast Prototyping

The evaluation/break-out PCB, power supply & SMA-BNC cable supplied enable "out of the box - ready to use"

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10MHz Rubidium Oscillator

Output	10MHz sine 0.7V rms into 50 ohms
Accuracy	$\pm 5 \times 10^{-11}$ at shipment @25°C
Phase to 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	$\pm 3 \times 10^{-11}$
Frequency Control	
Internal trim range (trimpot)	greater than 2×10^{-9}
External trim range	greater than 2×10^{-9} (0V~5V)
Short term stability	3×10^{-11}/1s 1×10^{-11}/10s 3×10^{-12}/100s
Aging	/hour 3×10^{-12}/day 4×10^{-11}/month 5×10^{-10}/year
Harmonics	
Second Harmonic	-48 dBc
Third Harmonic	-45 dBc
Frequency Drift	3×10^{-12}/day, 3×10^{-11}/month
Status Monitors	Lock and On LEDs
Operating Temp. Range	-20°C to +50°C
Temperature Coefficient (ambient)	3×10^{-10} (-20° to 50°C)
Storage Temperature	-40° to 70°C
MTBF	100,000 hours
Connectors (picture shows BNC adaptor not supplied)	SMA
Size	Evaluation/break-out PCB + 38x94x127mm
Weight	0.75Kg
Warranty	3 years

OPTION (included)
Ext 24Vdc supply. 90-240V ac input. 1.5m coax lead
SMA to BNC (to enable “out of box - ready to use”)

19” Rack mount instrument version 1.75”/44mm/1U
See A1000 data sheet

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- Frequency Reference
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- Frequency Standard
- Rubidium Evaluation Pack
- Fast Prototyping