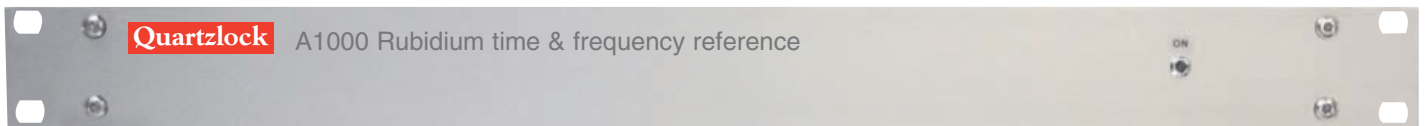


Rubidium Frequency Reference



Description

The Quartzlock A1000 Rubidium Frequency Reference is a 10 MHz high stability standard with very low capital and cost of ownership.

Features

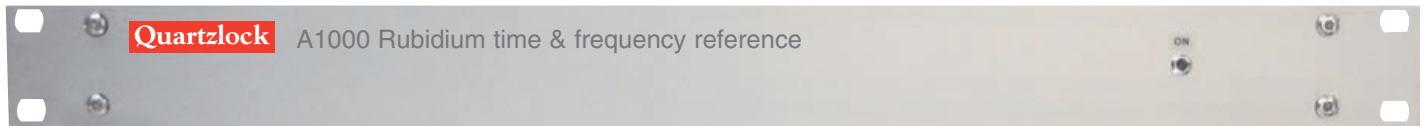
- Low Phase Noise
- Low Drift
- High Stability
- 3 Year Warranty

Applications:

- Systems & Test Solutions
- Frequency Reference
- Frequency Standard
- Wireless Transmitter Ref.

Quartzlock A1000

Rubidium Frequency Reference



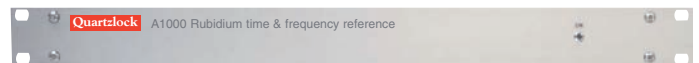
Low phase noise • low drift • high stability

SPECIFICATION

Output (50 ohms)	10MHz sine 0.7V rms +7dBm
OPTION A	1V rms +13dBm
OPTION B	Custom output frequencies
Accuracy	$\pm 5 \times 10^{-11}$ at shipment @25°C
Phase to Noise (SSB)	10Hz -100dBc
	100Hz -120 dBc
	1KHz -140 dBc
Input Power	13W
Input Voltage Range	90-240V ac
Warm Time	5 minutes to lock @ 25°C
Retrace	$\pm 3 \times 10^{-11}$
Frequency Control Internal (external ask Quartzlock)	
Internal trim range (trimpot)	greater than 2×10^{-9}
External trim range	greater than 2×10^{-9} (0V~5V)
Short term stability	1s 3×10^{-11}
	10s 1×10^{-11}
	100s 3×10^{-12}
	hour $x 10^{-13}$
	day 1×10^{-12}
Harmonics	
Second Harmonic	-48 dBc
Third Harmonic	-45 dBc
Frequency Drift	$3 \times 10^{-12}/d, 3 \times 10^{-11}/m, 5 \times 10^{-10}/yr$
Status Monitors	Lock and On LED
RS232 i/o NMEA NTP, lock advice etc.	
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	BNC RF & IEC line supply input
Size	19" Rack 1 U (44mm/1.75")
Weight	1.75Kg
Warranty	3 years

Applications:
Systems & Test Solutions
Frequency Reference
Frequency Standard
Wireless Transmitter Ref.

new 2007 economy '1U' line instruments



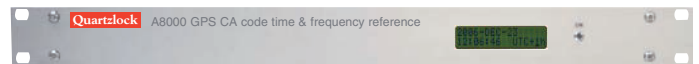
A1000 Rubidium instrument

Low phase noise • low drift • high stability



A5000 Distribution Amplifier

Up to 24 outputs from 1 or 2 inputs



A8000 GPS CA code time & freq. ref.

A4000 Redundant RF Switch Unit

For use with Rb and GPS references

Quartzlock can combine any of the above instruments into a single 1U unit to meet specified requirements.

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