

Rack-Mounted Precision OCXO Oscillator - 10 MHz

Description

Our 1U RMO provides an ultra-low phase noise, stable and precise frequency reference essential for synchronizing operations across multiple devices within your earth station. This low-profile design allows for easy integration into existing reference distribution systems. Scalability, enhanced reliability with redundancy are built-in for added peace of mind. Available with multiple options for redundancy.

Features

- Low Phase Noise:** ideal for high-order modulation schemes
- High Stability:** reduces acquisition time
- Frequency Accuracy:** optimizes network efficiency
- Long-Term Stability:** no need to recalibrate with a system that stays accurate for years
- Scalable:** attach up to 12 devices to save space and hardware costs
- Redundancy:** automatic switch to backup oscillator for continuous network operation
- Compact:** 1 U saves rack space
- Monitor & Control:** view status and alarms via ethernet, RS485, and front panel

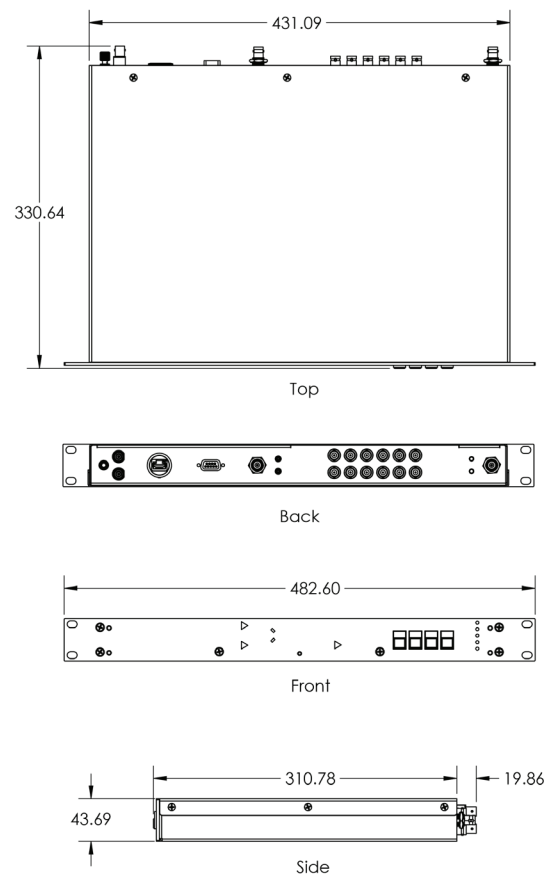
Applications

Rack-mounted oscillators are optimal for those who design, operate, and maintain the following:

- teleports, earth, and ground stations
- ground control and TTAC stations
- earth observation, satellite tracking, receiving stations



Mechanical Diagram



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Specifications

Waveform	Sinusoidal
Frequency (MHz)	10
Output level (dBm, typ)	+2 dBm
Stability Over Temperature (\pm ppb)	0.05
Accuracy (\pm ppb) (after 1 hour of operation)	0.3
Aging (bbp/day)	0.5

PHASE NOISE (TYP) AT 23°C AMBIENT, MOTIONLESS

10 Hz (dBc/Hz)	-120 dBc/Hz
100 Hz (dBc/Hz)	-145 dBc/Hz
1 kHz (dBc/Hz)	-158 dBc/Hz
10 kHz (dBc/Hz)	-160 dBc/Hz
100 kHz (dBc/Hz)	-160 dBc/Hz
1 MHz (dBc/Hz)	-160 dBc/Hz
Harmonics (dBc)	<-60
Port to Port Isolation (min)	30 dB
RF port impedance (Ohm)	50
Standards	RoHS, REACH, CE

ENVIRONMENTAL

Operating Temperature (°C)	0 to + 40
Humidity (%) non-condensing	80

MECHANICAL

Dimensions (in)	19 " x 1.75" x 12"
Paint - Finish	Powder coated, black
Output Connector - RF	BNC(f)

OPTIONS

Port configuration	4, 8 or 12
Oscillator configuration (OCXO)	single, 2 internal, 2 external, 1 internal + backup