

## FEATURES

- Ultra Low Phase Noise and Jitter
- Custom OCXO Provides Sub Picosecond Jitter
- 3.3V CMOS Square Wave Output With 50Ω Impedance for Direct Compatibility With RF and Lab Equipment
- USB Calibration for Long-term Accuracy
- Rack Mountable with Optional Shelf

## APPLICATIONS

- Precision Frequency Reference for Lab Equipment
- Microwave RF Transmitter and Receiver Systems
- Master Clocks for Audio/Video Systems, DACs, and Recording Gear
- Referencing Radio Equipment

## DESCRIPTION

The LBE-1610 is a stable 10MHz low phase-noise reference designed for demanding scientific, RF, and metrology applications requiring ultra-low phase noise.

## SPECIFICATIONS

### POWER

Connector	Mains IEC Connector
Voltage	110/240V AC
Current	0.2A maximum

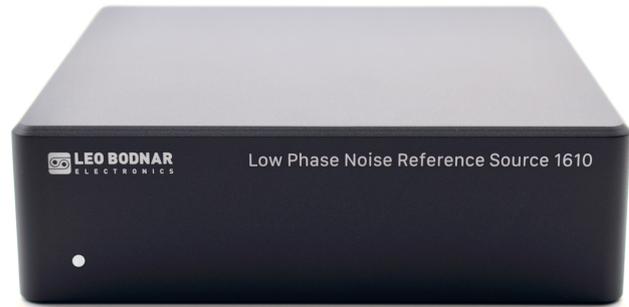
### OUTPUT

Connector	2 x SMA Female
Frequency	10MHz
Amplitude	1.65V into 50Ω, 3.3V into High Impedance

Wave Shape	Square
Rise Time (10%-90%)	300ps
Fall Time (90%-10%)	260ps

### OUTPUT POWER

@ 10 MHz	+11dBm
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### PHASE NOISE

Typical Phase Noise @ 10MHz	-115dBc/Hz @ 1Hz
	-145dBc/Hz @ 10Hz
	-162dBc/Hz @ 100Hz
	-167dBc/Hz @ 1kHz
	-170dBc/Hz @ 10kHz
	-170dBc/Hz @ 100kHz
	-170dBc/Hz @ 1MHz

### DIMENSIONS

Size	140x140x45mm
Weight (Main Device)	1.95kg

### CALIBRATION

Connector	USB-C
Data Connection	CDC Virtual Serial Port

 Datasheet Version: V1.0 Initial Document Created-15-07-2025