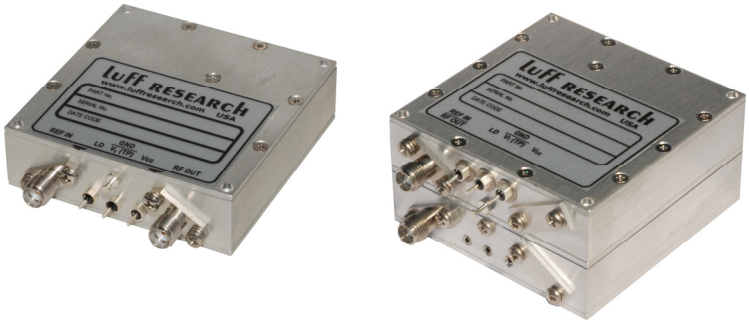
Model PLOX: Phase-Locked Crystal Oscillator (PLXO)

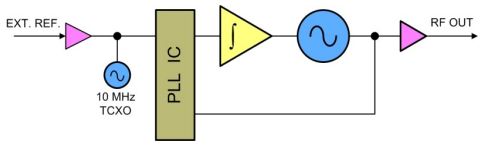
Features

- **Fixed frequency: 10 – 1400 MHz**
- **Very low phase noise**
- **Spurious: -80 dBc**
- **Harmonics: -30 dBc**
- **Internal TCXO (0.5± PPM) or phase-locked to an external reference**
- **Low cost**

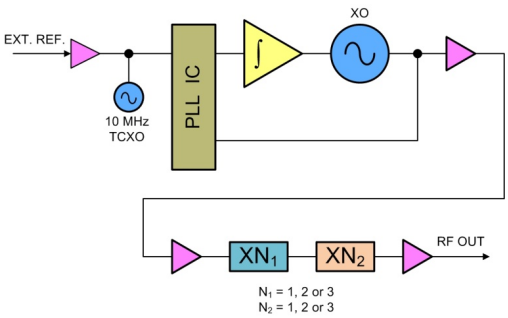


Block Diagram

F_0 <150 MHz



F_0 >150 MHz



Description

Our model PLOX is a line of very low phase noise, phase-locked crystal oscillators. These units have been designed for a wide variety of demanding applications in communications, radar and instrumentation systems. Fundamental units are supplied for operation below 150 MHz and above 150 MHz units are multiplied to the desired frequency. Multiplied low noise crystal oscillators offer the lowest phase noise frequency sources available.

These PLXO units offer excellent phase noise and harmonic and sub-harmonic performance.

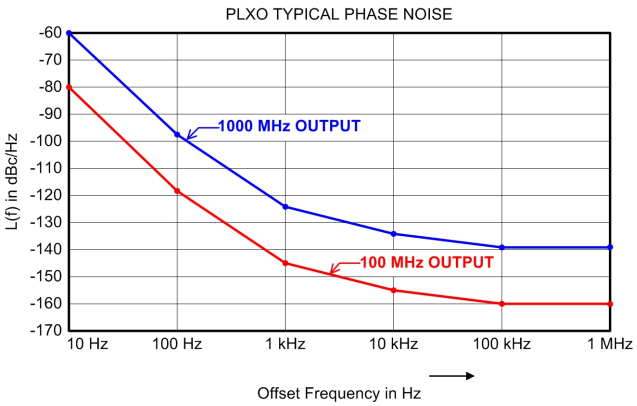
The output frequency from these units can be phase-locked to an input reference frequency or the unit can be configured with an internal TCXO. These units offer many options and can easily be customized to a specific requirement.

These units are available with an internal reference TCXO or OCXO. This unit has the feature that when the input reference is removed, the internal reference is automatically switched in as the reference to the phase-locked loop.

The PLXO is a rugged and economical solution for many demanding communication and instrumentation applications.

PLXO Key Specifications

Output Frequency:	up to 150 MHz
with multiplier:	up to 1400 MHz
Spurious:	-80 dBc
Harmonics (typ):	-43 dBc
Output Power (min.):	+13 dBm
External Reference:	5 MHz, 10 MHz or Custom
Internal Reference:	±0.5 PPM (0ºC to +60ºC)
Alarm (LD):	Open Collector or TTL
Power Requirements:	+5.0 Vdc @ 200 mA
with multiplier:	+5.0 Vdc @ 350 mA
Size:	2.25" x 2.25" x 0.62"



20 N. Tyson Ave, Floral Park, NY 11001 Tel. (516) 358-2880 Fax (516) 358-2757 Email: sales@luffresearch.com Web: www.luffresearch.com