

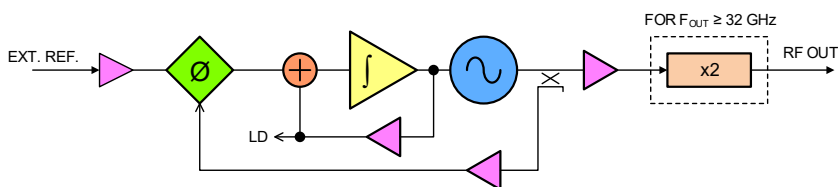
# PHASE-LOCKED OSCILLATORS OVERVIEW

## PLO Features

- Fixed frequency sources to **32 GHz**
- Phase-Locked to:
  - External reference 5, 10 or 100 MHz or
  - Internal reference (TCXO or OCXO)
- Very low phase noise and spurious
- Low power consumption, single +5 Vdc operation
- Rugged, compact, connectorized package
- Standard product line and fully customized units
- Low cost



## Block Diagram



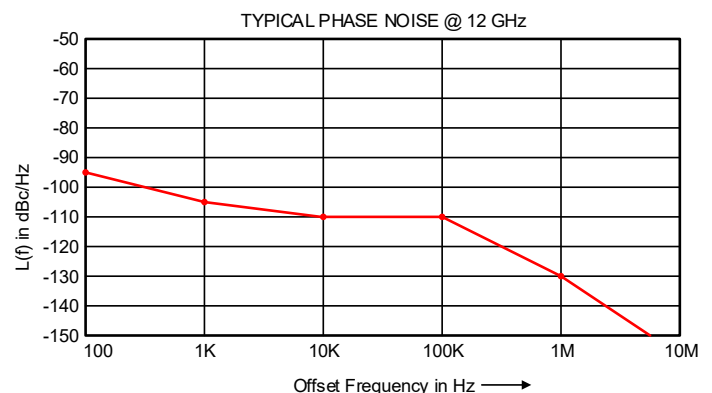
## Description

Luff Research manufactures frequency sources that are designed for demanding applications in commercial and industrial communication and test equipment. Units are developed to fulfill specific requirements from our generic product line of designs which incorporate the latest technologies.

Our designs are always high performance, high reliability and are cost effective. We pride ourselves on working closely with our customers so that the end product fulfills all the design objectives.

## Options

- Technologies used:
  - Crystal oscillators (PLOC)
  - Ceramic resonator oscillators (PLCRO)
  - Coaxial resonator oscillators (PLO)
  - Dielectric resonator oscillators (PLDRO)
  - Voltage controlled oscillators (PLVCO)
- Dual-loop configurations
- High performance internal reference oscillators
- Hermetically sealed oscillators



**Luff RESEARCH**