

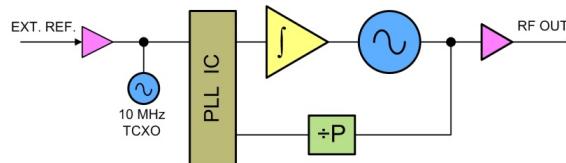
# Model PLOD: Phase-Locked Voltage Controlled Oscillator (PLVCO)

## • Features

- Output frequencies from 10 MHz to 14 GHz
- Low phase noise & spurious
- Harmonics (typ.) -30 dBc
- Internal ( $\pm 0.5\text{PPM}$ ) or external reference frequency
- Small size (2.25" x 2.25" x 0.62")
- Lowest cost X-Band PLO



## • Block Diagram



## • Description

The model PLVCO is a single PLL design that locks a voltage controlled oscillator (VCO) to either an external or internal reference. Due to the availability of VCO's at a low cost this is a very simple way to realize a desired frequency. The performance is suitable for many applications. The unit is the lowest cost PLO architecture we have available.

## • PLXO Key Specifications

Output Frequency:	10 MHz to 14 GHz
Spurious:	-70 dBc
Harmonics (typ.):	-40 dBc
Output Power (min.):	+13 dBm
External Reference:	1 to 20 MHz (0 dBm $\pm 3$ dB)
Internal Reference:	$\pm 0.5\text{ PPM}$ (-10°C to +70°C)
Alarm:	Open Collector or TTL
Power Requirements:	+5.0 Vdc @ 250 mA
Size:	2.25" x 2.25" x 0.62"

