

Electrical Specifications

Frequency	16.15 GHz
Frequency Stability and Accuracy	
External Ref.	Same as input
Internal Ref.	± 0.5 PPM (Over Temp Range)
Typical Phase noise (dBc/Hz)	
L(100 Hz)	-84
L(1 kHz)	-105
L(10 kHz)	-113
L(100 kHz)	-118
L(1 MHz)	-135
L(10 MHz)	-140
Spurious (max)	-60 dBc
Harmonics/Sub-Harm. (typ.)	-20 / -20 dBc
DC Power	
+5.5 VDC ± 0.5 VDC	750 mA
Power Out (nom. / min. @ 25°C)	+15 / +13 dBm
Power Variation (typ.)	2 dB
Load VSWR (max.)	2:1
Phase-Lock Indicator (LD)	Open Collector (note 4)

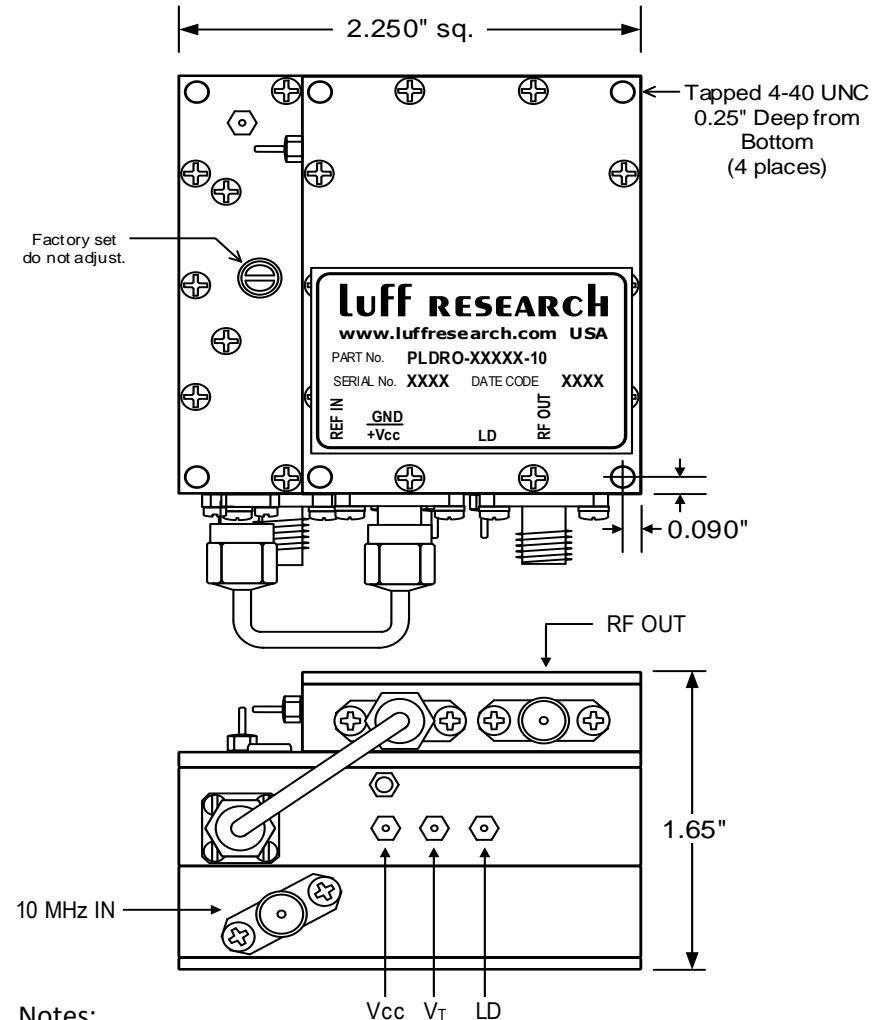
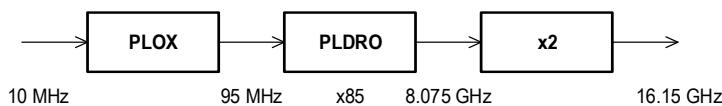
Reference Specifications

Input Reference Frequency	10 MHz
Input Level	0 dBm ± 3 dBm

Environment Specifications

Operating Temp. Range (surface)	-5°C to 65°C (note 3)
Storage Temp. Range	-40°C to 85°C
Relative Humidity (non-condensing)	90%RH @ 40°C
Shock	30G / 10 ms
Vibration	4G / 20 Hz - 20 kHz

Block Diagram



Notes:

1. This unit features an automatic switch to an internal reference TCXO (± 0.5 PPM) when the external reference is removed.
2. Internal TCXO frequency adjustment is located on the bottom of the unit.
3. Proper heatsinking is required to keep surface temp lower than +65°C.
4. TTL Compatible Lock Detect available upon quote.

luff RESEARCH, inc.

luffresearch.com | 20 N. Tyson Ave. Floral Park, NY 11001

Product Data Sheet

Phase Locked Dielectric Resonating Oscillator

PLDRO-161510-10

April 16, 2018