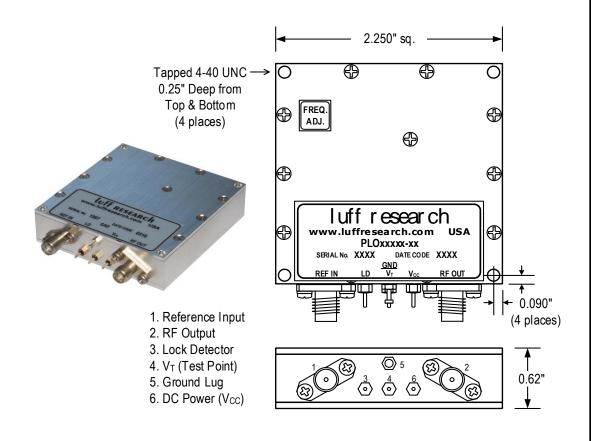
Output Frequency				
Frequency:	10 MHz			
Frequency stability and accuracy				
External reference unit	Same as input			
Internal reference unit	±0.5 PPM (over temp range)			
Aging (After 2 months):	±1 PPM max per year @ 25°C			
Adjustability (typ.):	10 years			
Phase noise in dBc/Hz:		<u>Typ.</u>	Max.	
	L(1 Hz)	-75		
	L(10 Hz)	-100		
	L(100 Hz)	-115		
	L(1 kHz)	-150		
	L(10 kHz)	-165		
	L(100 kHz)	-165		
	L(1 MHz)	-165		
Spurious (max.):		-60 dBc		
Harmonics (max.):	-40 dBc			
Power out (nom. / min.) @ 25°C:	+15 / +13 dBm			
Power variation (freq. & temp.) (max.):	±2 dB			
Load VSWR (max.):	2:1			
Phase-lock indicator (LD), High = lock:	Open collector (note 4)			
Reference F	requency			
Input reference frequency:	10 MHz			
Input level:		0 dB	lm ±3 dB	
DC Power				
+5.5 Vdc ±0.5 Vdc		200 mA		
Mecha	nical			
RF connectors:	SMA (F)			
DC connections:	Filtered Feedthroughs			
Environ	ment			
Operating temperature range (surface):	-5°C to 65°C			
Storage temperature range:	-40°C to 85°C			
Relative humidity (non-condensing):	90%RH @ 40°			
Shock:	30 G / 10msec			
Vibration:	4 G / 20 Hz - 20 kHz			
Specifications @:	+25°C			



## NOTES:

- 1. This phase-locked crystal oscillator has the feature that when the external reference is removed, the internal TCXO reference is automatically switched in as the reference.
- 2. The internal reference is a TCXO. This unit is also available with an optional OCXO. For the internal OCXO reference, please order model PLOX-xxx-OX. (±50 PPB typ.)
- 3. Phase noise at offsets of 1 Hz, 10 Hz and 100 Hz is determined by the phase noise of the 10 MHz reference.

Model: PLOX010-10

4. For TTL compatible lock detector output, add -T at the end of the model number.

## Iuff research, inc. FLORAL PARK, NY USA www.luffresearch.com PRODUCT DATA SHEET Digital Phase-Locked Oscillator

Rev. E

06/15/20