

SPECIFICATIONS

Output Frequency

Frequency:	100 MHz		
Frequency stability and accuracy			
<input checked="" type="checkbox"/> External reference unit	Same as input		
<input type="checkbox"/> 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:		Typ.	Max.
	L(10 Hz)	-85	
	L(100 Hz)	-125	
	L(1 kHz)	-155	
	L(10 kHz)	-165	
	L(100 kHz)	-165	
	L(1 MHz)	-165	
	L(10 MHz)		
Spurious (max.):	-60 dBc		
Harmonics (typ.):	-40 dBc		
Power out (min.) @ 25°C:	+13 dBm		
Power variation (freq. & temp.) (max.):	2 dB		
Load VSWR (max.):	2:1		
Phase-lock indicator (LD), High = lock:	<input checked="" type="checkbox"/> Open collector	<input type="checkbox"/> TTL	

Reference Frequency

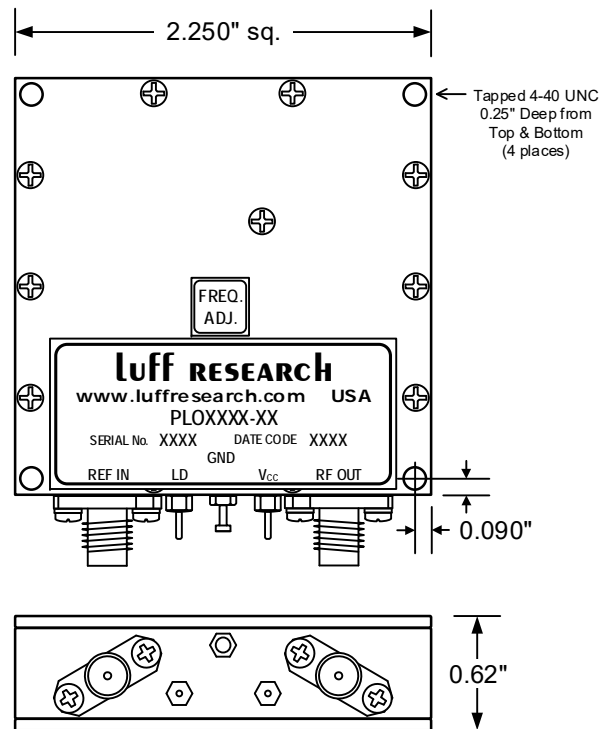
Input reference frequency:	10 MHz
Input level:	0 dBm ±3 dB

DC Power

+5.5 Vdc ±0.5 Vdc	200 mA
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Environment

Operating temperature range (surface):	0°C to 60°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



Notes:

1. This unit has a standard TCXO internal reference or is available with an optional OCXO. For the internal OCXO reference, order model PLOX-100-10-OX.
2. This unit has the feature that when the input reference is removed, the internal TCXO reference is automatically switched in as the reference to the phase-locked loop.
3. The frequency adjustment is fragile and needs to be adjusted with care. (recommended tuning tool size 0.060" x 0.015")

Luff RESEARCH, INC. USA

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PRODUCT DATA SHEET

Phase-Locked Crystal Oscillator

Model: PLOX100-10

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