Electrical Specifications

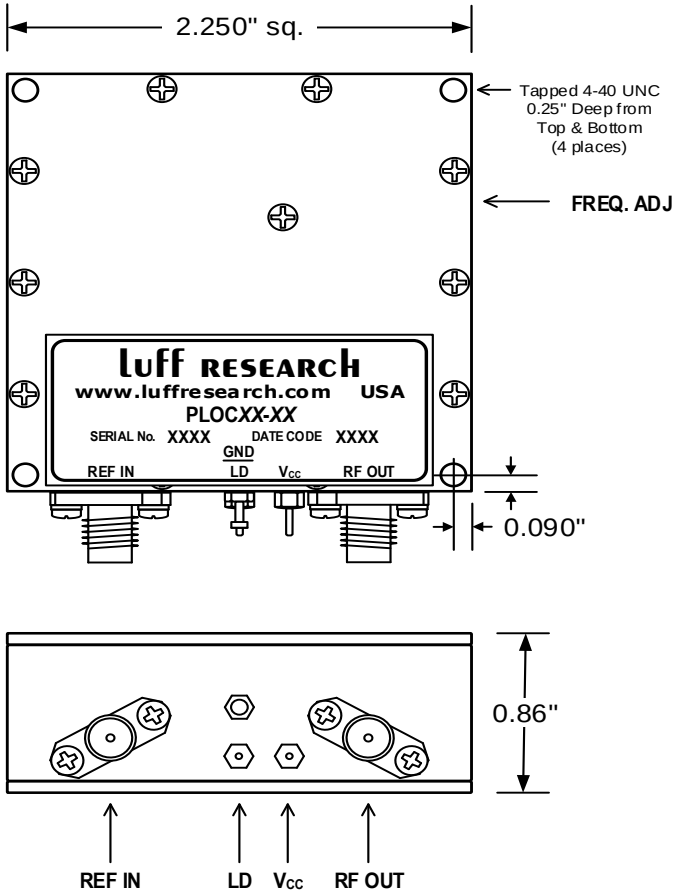
Frequency	10.0 MHz	
Frequency Stability and Accuracy		
External Ref.	Same as input	
Internal Ref.	± 5 x 10^-8 (Over Temp Range)	
Aging (after 30 days)	± 5 x 10^-10 (per day)	
Adjustability	10 years	
Phase noise (dBc/Hz)	Typ.	
L(10 Hz)	-125	
L(100 Hz)	-150	
L(1 kHz)	-160	
L(10 kHz)	-165	
L(100 kHz)	-165	
L(1 MHz)		
Spurious (max)	-60 dBc	
Harmonics (typ.)	-40 dBc	
DC Power	Typ.	Warm-up
+15 VDC ± 5%	300 mA	500 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)	-20°C to 70°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



Notes:

1. The output signal is generated via precision OCXO at 10 MHz phase-locked to a 100 MHz input reference.
2. This unit features an automatic switch to the internal OCXO when the external reference is removed.
3. Proper heatsinking may be required to keep surface temp. lower than +70°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

Frequency Standard Phase Noise Clean-up Phase-Locked Oscillator

PLOC10-10	April 17, 2018