

Electrical Specifications

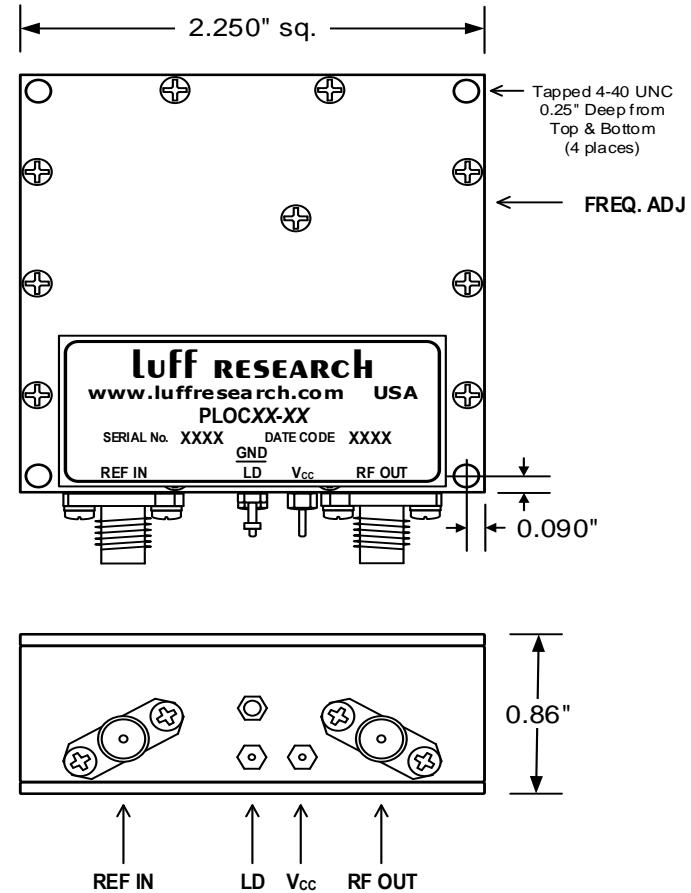
Frequency	10.0 MHz	
Frequency Stability and Accuracy		
External Ref.	Same as input	
Internal Ref.	$\pm 5 \times 10^{-8}$ (Over Temp Range)	
Aging (after 30 days)	$\pm 5 \times 10^{-10}$ (per day)	
Adjustability	10 years	
Phase noise (dBc/Hz)	Typ.	
L(10 Hz)	-125	
L(100 Hz)	-150	
L(1 kHz)	-160	
L(10 kHz)	-165	
L(100 kHz)	-165	
L(1 MHz)	-165	
Spurious (max)	-60 dBc	
Harmonics (typ.)	-40 dBc	
DC Power	Typ.	Warm-up
+15 VDC $\pm 5\%$	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.

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Product Data Sheet

Frequency Standard Phase Noise Clean-up Phase-Locked Oscillator

PLOC10-10

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