

SPECIFICATIONS

Output Frequency

Frequency:	10.5 GHz	
Freq. stability and accuracy (Ext. Ref):	Same as Input	
Freq. stability and accuracy (Int. Ref):	±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.):	L(100 Hz)	-70
	L(1 kHz)	-75
	L(10 kHz)	-80
	L(100 kHz)	-90
	L(1 MHz)	-110
Spurious:	-60 dBc	
Harmonics (typ.):	-25 dBc	
Power out (min.):	+13 dBm	
Output power variation (freq. & temp.):	2 dB	
VSWR:	1.5:1	
Load VSWR (max.):	2:1	
Phase-lock indicator:	High = lock (open collector)	
VT Tuning Voltage (nom.):	+2.5V	

Input Frequency

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

DC Power

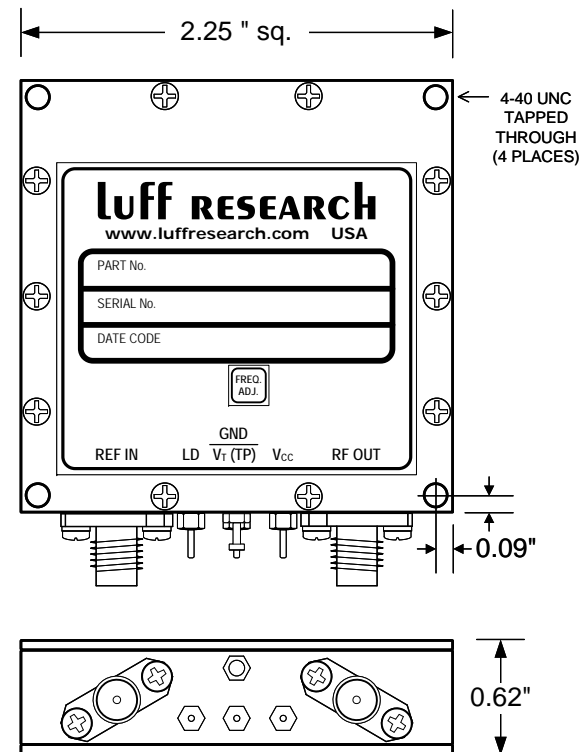
+5.0 Vdc (min.) +6.0 Vdc (max.)	250 mA (max.)
Internal regulator	

Mechanical

RF connector:	2 SMA (F)
DC connection:	3 Filtered Feed Throughs

Environment

Operating temperature range (surface):	-10°C to 70°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. These unit are available with an internal TCXO. (Model No. PLODxxxx-INT)
2. The Frequency adjustment is only applicable on units with internal reference.
3. The 'REF IN' connector is not provided on units with internal reference.
4. Model No. PLODxxxx-yy
xxxx = the output frequency in MHz and yy = the reference frequency in MHz.

luff RESEARCH, inc.		
FLORAL PARK, NY		
PHONE: (516) 358-2880 FAX: (516) 358-2757		
PRODUCT DATA SHEET		
Phase-Locked Voltage Controlled Oscillator		
Model: PLOD10500-INT		09/01/11