

## SPECIFICATIONS

### Output Frequency

Frequency:	1000 MHz
Frequency stability and accuracy	
<input checked="" type="checkbox"/> External reference unit	Same as input
<input type="checkbox"/> Internal reference unit	$\pm$ PPM (over temp range)
Aging (After 2 months):	$\pm 1$ PPM max per year @ 25°C
Adjustability (typ.):	10 years
Phase noise in dBc/Hz (typ.):	
L(100 Hz)	-100
L(1 kHz)	-110
L(10 kHz)	-110
L(100 kHz)	-130
L(1 MHz)	-145
L(10 MHz)	
Spurious (max.):	-60 dBc
Harmonics (typ.):	-30 dBc
Power out (min.) @ 25°C:	+13 dBm
Power variation (freq. & temp.) (max.):	2 dB
VSWR (typ.):	1.5:1
Phase-lock indicator (LD), High = lock:	<input checked="" type="checkbox"/> Open collector <input type="checkbox"/> TTL
Tuning Voltage ( $V_T$ ) (nom.):	2.5 V

### Reference Frequency

Input reference frequency:	10 MHz
Input level:	0 dBm $\pm 3$ dB

### DC Power

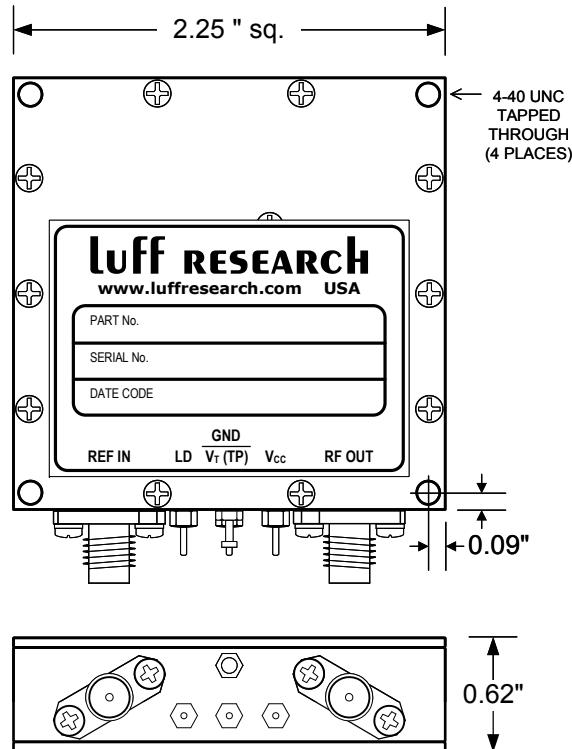
+5.0 Vdc (min.) +6 Vdc (max.)	250 mA
Internal regulator	

### Mechanical

RF connectors:	SMA (F)
DC connections:	Filtered Feed Throughs

### 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. These units are available with an internal TCXO. (Model No. PLOA1000-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. Close in phase noise is reference dependent. Output phase noise is typically equal to the reference phase noise - (20logN+3) dB.

<b>luff RESEARCH, inc.</b>
FLORAL PARK, NY
PHONE: (516) 358-2880 FAX: (516) 358-2757
PRODUCT DATA SHEET
Analog Phase-Locked Ceramic Resonator Oscillator
Model: PLOA1000-10
05/09/12