

## SPECIFICATIONS

### Output Frequency

Frequency:	10.0 GHz
Frequency stability and accuracy	
<input type="checkbox"/> External reference unit	Same as input
<input checked="" type="checkbox"/> Internal reference unit	±1 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)	-80
L(1 kHz)	-105
L(10 kHz)	-110
L(100 kHz)	-115
L(1 MHz)	-130
L(10 MHz)	-145
Spurious (max.):	-70 dBc
Harmonics (typ.):	-25 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

### Reference Frequency

Input reference frequency:	Internal Reference
Input level:	N/A

### DC Power

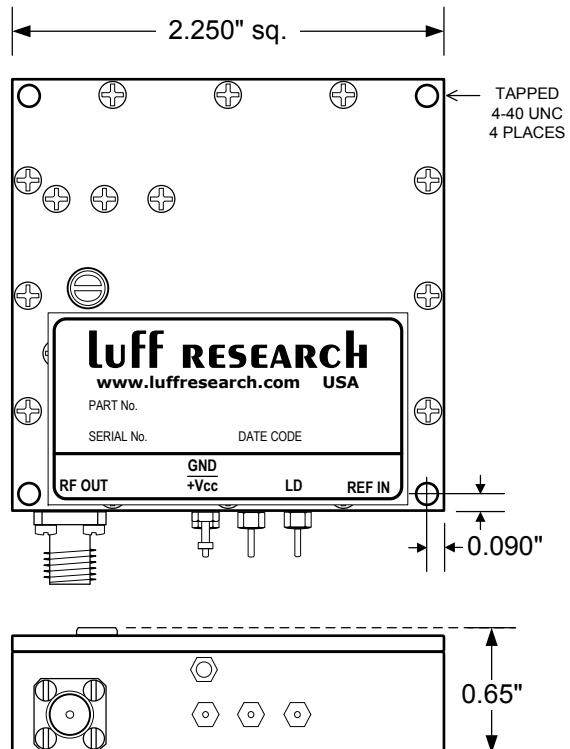
+5.0 Vdc (min.) +6 Vdc (max.)	500 mA
Internal regulator	

### Mechanical

RF connectors:	SMA (F)
DC connections:	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



**luff RESEARCH, inc.**  
FLORAL PARK, NY  
PHONE: (516) 358-2880 FAX: (516) 358-2757  
PRODUCT DATA SHEET  
Phase-Locked Dielectric Resonator Oscillator  
Model: PLDRO-10000-INT      05/01/12