

SPECIFICATIONS

Output Frequency

Frequency:	100 MHz
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(10 Hz) -85
	L(100 Hz) -115
	L(1 kHz) -145
	L(10 kHz) -155
	L(100 kHz) -160
Spurious (max.):	-80 dBc
Harmonics (typ.):	-40 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 (LD):	High = lock (open collector)
V _T Tuning Voltage (nom.):	+2.5V

Input Frequency

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

DC Power

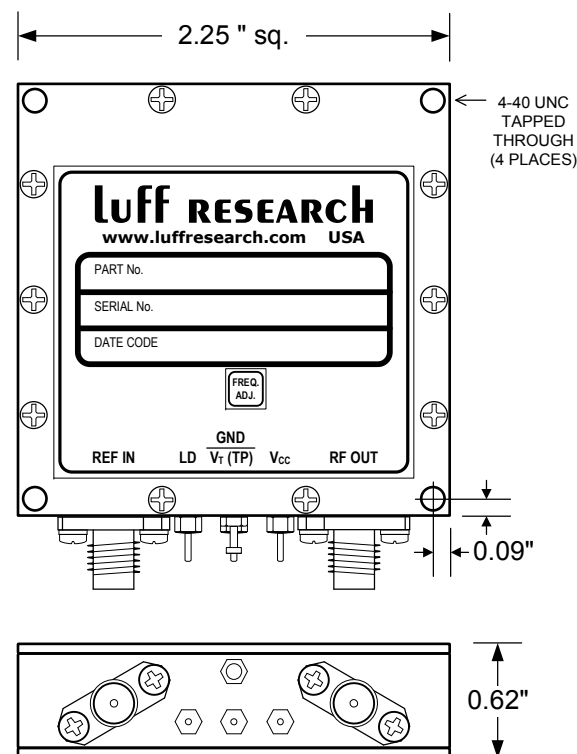
+5.0 Vdc (min.) +6.0 Vdc (max.)	200 mA (max.)
Internal regulator	

Mechanical

RF connector:	SMA (F)
DC connection:	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. This unit has the feature that when the input reference is removed, the internal reference is automatically switched in as the reference to the phase-locked loop.
2. The frequency adjustment is fragile and needs to be used with care.
(recommended tuning tool size 0.060" x 0.015")

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PRODUCT DATA SHEET

Phase-Locked Crystal Oscillator

Model: PLOX100-10

Rev. A

06/27/11