

PLO SPECIFICATIONS

Output Frequency

Frequency:	13.2 GHz
Frequency stability and accuracy	
<input checked="" type="checkbox"/> External reference unit	Same as input
<input type="checkbox"/> Internal reference unit	±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)	-83
L(1 kHz)	-106
L(10 kHz)	-112
L(100 kHz)	-117
L(1 MHz)	-133
L(10 MHz)	-152
Spurious (typ.):	-80 dBc
Harmonics (typ.):	-25 dBc
Power out @ 25°C:	+14 dBm ±0.5 dB
Power variation (freq. & temp.) (max.):	±1 dB
VSWR (typ.):	1.5:1
Phase-lock indicator (LD), High = lock:	<input checked="" type="checkbox"/> Open collector <input type="checkbox"/> TTL
with 10K Pull-up resistor to 12V	

Reference Frequency

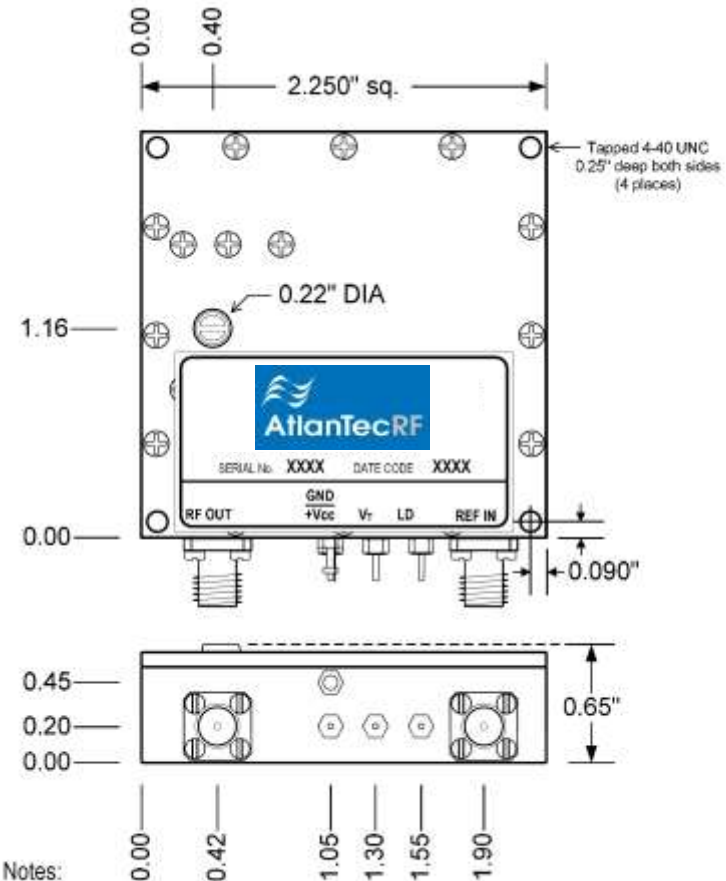
Input reference frequency:	100 MHz
Input level:	0 dBm ±3 dB

DC Power

+12.0 Vdc ±3%	450 mA
Internal regulator	

Environment

Operating temperature range:	-40°C to 85°C (surface)
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. Close in phase noise is reference dependent. Output phase noise is typically equal to the reference phase noise + (20logN+3) db.

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General Description

**13.2GHz PLDRO
100MHz Ext Ref**



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AtlanTecRF is a brand name of Atlantic Microwave Ltd.

**Drawing Number:
ENG13-358**

**Rev:
A**

Dw	Check	Date	Scale	Projection
	12/05/14		NTS	
Rev.	Description	Date	Approval	
A	Updated DC Power			