REV	DATE	REVISION RECORD	DWN	AUTH
-	07-22-15	Initial Release	PAC	
A	02-15-19	Warm up and Total Power	BH	BK

INPUT

Frequency

10 MHz, ±2 x 10^{-7}

Level

+7 dBm ±6 dB into 50 ohms

OUTPUT

Frequency

10 MHz

Level

+13 dBm ±2 dB into 50 ohms

STABILITY

Aging

5 x 10^{-10} per day
after 30 days operating, typical

Phase Noise L(f), static, free-running

10 Hz	-135 dBc/Hz
100 Hz	-160 dBc/Hz
1 kHz	-172 dBc/Hz
10 kHz	-174 dBc/Hz

Temperature Stability

±5 x 10^{-8} free-running from 0 to +50°C, (Ref. +25°C)

Harmonics

-30 dBc

PLL Divider Products

-80 dBc

Non-Harmonic Spurious

-80 dBc, excluding power supply line related spurs

Phase Lock Alarm

TTL
Locked: +3.5 VDC to +5.2 VDC (Hi)
Out-of-Lock: +0.8 VDC max (Lo)

Phase Lock Voltage Monitor

Voltage monitor pin supplied

MECHANICAL

Dimensions

2.25 x 2.25 x 1.3”

Connectors

SMA(f) and solder pins on side

Packaging

Nickel-plated machined aluminum case - CHPLO

POWER REQUIREMENTS

Warm-Up Power

≤ 9 Watts for 5 minutes at +25°C

Total Power

≤ 6 Watts at +25°C

Supply Voltage

+15 VDC ±5%

ADJUSTMENT

Loop BW

Target Bandwidth: ≤ 1 Hz
Type 2 Loop

CRYSTAL

Type

10 MHz SC-cut

Acceleration Sensitivity

≤ 5 x 10^{-10}/g per axis, typical

ENVIRONMENTAL

Operating Temperature

0° to +50°C

Storage Temperature

-40° to +85°C

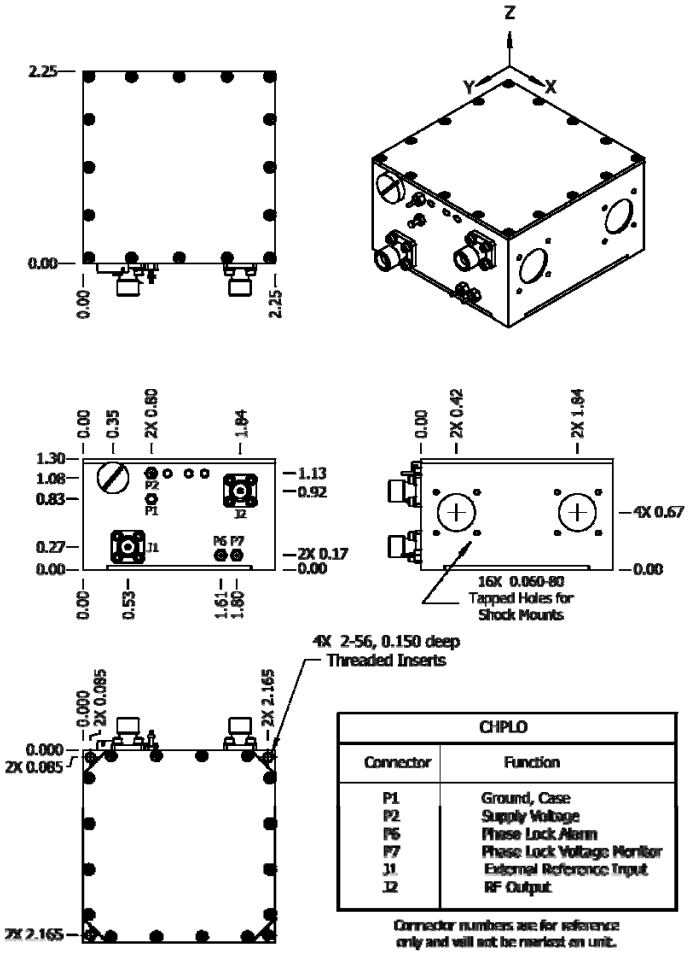
OTHER

Label

Use conventional label with the following information:
501-29285 (Current Rev.)
10 MHz Citrine PLO
+15 VDC
Serial # - Date Code

Test Data

Output Level
Phase Noise, Static, Free-Running
Temperature Stability, Free-Running
Harmonics, PLL Products, Spurious
Power – Warm-up and Total



Wenzel Associates, Inc.
Austin, Texas

Title:

Premium 10 MHz-SC Phase Lock Citrine Crystal Oscillator

P/N:	Rev:	Date:	Drawn:	Ref:
501-29285	A	02-15-19		ULN

Tolerances: (except as noted) Dimensions are in inches	0.XX Dec:	0.XXX Dec:	FSCM:	Page 1 of 1
	±0.030”	±0.010”	62821	