INPUT

Frequency

10 MHz, ±5 x 10^{-7}

Level

+7 dBm ±5 dB into 50 ohms

OUTPUT

Frequency

50 MHz

Level

+13 dBm ±2 dB into 50 ohms

STABILITY

Aging

1 x 10^{-6} first year

after 30 days operating, typical

5 x 10^{-7} second year, typical

3 x 10^{-7} per year thereafter, typical

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

100 Hz	-135 dBc/Hz
1 kHz	-155 dBc/Hz
10 kHz	-169 dBc/Hz
100 kHz	-170 dBc/Hz

Temperature Stability

±5 x 10^{-7} free-running from 0 to +50°C, (Ref. +25°C)

Harmonics

≤ -30 dBc

Sub-Harmonics

≤ -80 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 x 2 x 1.3”

Connectors

SMA(f) and solder pins on side

Packaging

Nickel-plated machined aluminum case - CVPLO

POWER REQUIREMENTS

Warm-Up Power

≤ 8 Watts for 5 minutes

Total Power

≤ 5 Watts at +25°C

Supply Voltage

+15 VDC ±5%

ADJUSTMENT

Loop BW

Target Bandwidth: ≤ 10 Hz

Type 2 Loop

CRYSTAL

Type

50 MHz SC-cut (low-g)

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:

501-26245 (Current Rev.)

50 MHz PL Citrine

+15 VDC

Serial # - Date Code

Test Data

Output Level

Phase Noise, Static, Free-Running

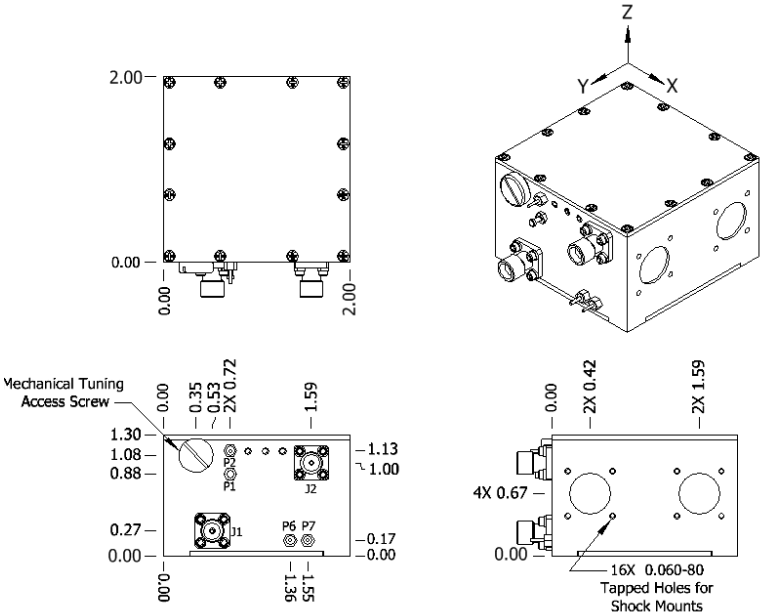
Temperature Stability, Free-Running

Harmonics, Subs, Products, Spurious

Power – Warm-up and Total

Acceleration Sensitivity

REV	DATE	REVISION RECORD	DWN	AUTH
-	09-05-12	Initial Release	PAC	JR



CVPLO	
Connector	Function
P1	Ground, Case
P2	Supply Voltage
P6	Phase Lock Voltage Monitor
P7	Phase Lock Alarm
J1	External Reference Input
J2	RF Output

Connector numbers are for reference only and will not be marked on unit.

Wenzel Associates, Inc.
Austin, Texas

Title:

Standard 50 MHz-SC Phase Lock Citrine Crystal Oscillator

P/N:	Rev:	Date:	Drawn:	Ref:
501-26245	**-**	**09-05-12**		SPR

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