

OUTPUT A (J2)

Frequency

80 MHz

Level

+13 dBm ± 2 dB into 50 ohms

Phase Noise L(f), Static

100 Hz -132 dBc/Hz

1 kHz -160 dBc/Hz

10 kHz -173 dBc/Hz

100 kHz -174 dBc/Hz

OUTPUT B (J1)

Frequency

160 MHz

Level

+13 dBm ± 2 dB into 50 ohms

Phase Noise L(f), Static

100 Hz -128 dBc/Hz

1 kHz -158 dBc/Hz

10 kHz -178 dBc/Hz

100 kHz -184 dBc/Hz

Aging

1×10^{-6} first year

after 30 days operating, typical

5×10^{-7} second year, typical

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

Temperature Stability

$\pm 5 \times 10^{-7}$, 0° to +50°C (Ref +25°C)

Harmonics

≤ -25 dBc

Sub-Harmonics

≤ -50 dBc

Non-Harmonic Spurious

≤ -80 dBc, excluding power supply line related spurs

MECHANICAL

Dimensions

2" x 2" x 1.3"

Connectors

SMA(f) and solder pins on one side

Packaging

Nickel-plated machined aluminum housing (CVP-1A)

Mounting

Threaded inserts, # 2-56, 4 places

Tapped holes on sides, 16 places

(provisions for shock mounts)

POWER REQUIREMENTS

Warm-Up Power

≤ 9 Watts for 5 minutes at +25°C

Total Power

≤ 5 Watts at +25°C

Supply Voltage

+15 VDC $\pm 5\%$

ADJUSTMENT

Mechanical Tuning

$\pm 4 \times 10^{-6}$

Electrical Tuning

$\pm 5 \times 10^{-7}$ min, ± 5 VDC

Negative slope

CRYSTAL

Type

80 MHz SC-cut w/ x2 stage

Acceleration Sensitivity

$\leq 2 \times 10^{-10}$ /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:

501-30648 (Current Rev.)

80/160 MHz Golden Citrine

+15 VDC

Serial # - Date Code

Test Data

Output Level

Phase Noise – Static

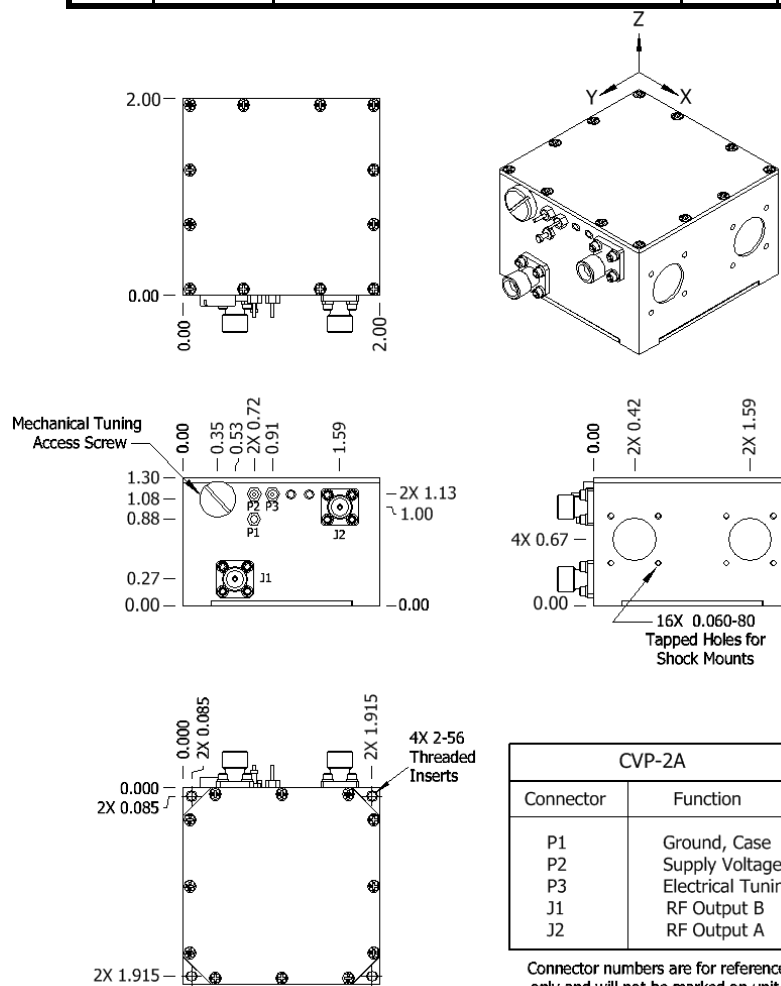
Temperature Stability

Harmonics, Subs, Spurious

Power - Warm-up and Total

Tuning – MT and ET

REV	DATE	REVISION RECORD	DWN	AUTH
-	02-14-17	Initial Release	Liz	
A	02-23-17	Warm-up Power to 9 Watts	PAC	MG



Wenzel Associates, Inc.

Austin, Texas

Title:

Golden 80/160 MHz Citrine Plus Crystal Oscillator

P/N:

501-30648

Rev:

A

Date:

02-23-17

Drawn:

Ref:

501-29837

Tolerances:
(except as noted)
Dimensions are in inches

0.XX Dec:

± 0.030 "

0.XXX Dec:

± 0.010 "

FSCM:

62821

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