

## OUTPUT

### Frequency

20 MHz

### Level

+13 dBm  $\pm 2$  dB into 50 ohms

## STABILITY

### Aging

$5 \times 10^{-10}$  per day  
after 30 days operating, typical

### Phase Noise L(f), Static

10 Hz -128 dBc/Hz

100 Hz -153 dBc/Hz

1 kHz -165 dBc/Hz

10 kHz -167 dBc/Hz

100 kHz -168 dBc/Hz

### Temperature Stability

$\pm 5 \times 10^{-8}$ , 0° to +50°C (Ref +25°C)

### Harmonics

$\leq -30$  dBc

### Sub-Harmonics

$\leq -50$  dBc

### Non-Harmonic Spurious

$\leq -80$  dBc, excluding power  
supply line related spurs

## MECHANICAL

### Dimensions

2.25" x 2.25" x 1.3"

### Connectors

SMA(f) and solder pins on one side

### Packaging

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

### Mounting

Threaded inserts, # 2-56, 4 places  
Tapped holes on sides, 16 places  
(provisions for shock mounts)

## POWER REQUIREMENTS

### Warm-Up Power

$\leq 9$  Watts for 5 minutes at +25°C

### Total Power

$\leq 6$  Watts at +25°C

### Supply Voltage

+15 VDC  $\pm 5\%$

## ADJUSTMENT

### Mechanical Tuning

$\pm 1 \times 10^{-6}$

### Electrical Tuning

$\pm 2 \times 10^{-7}$  min,  $\pm 5$  VDC

Negative slope

## CRYSTAL

### Type

10 MHz SC-cut (x2)

### Acceleration Sensitivity

$\leq 5 \times 10^{-10}$  /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:

501-25558 (Current Rev.)

20 MHz Citrine Plus

+15 VDC

Serial # - Date Code

### Test Data

Output Level

Phase Noise – Static

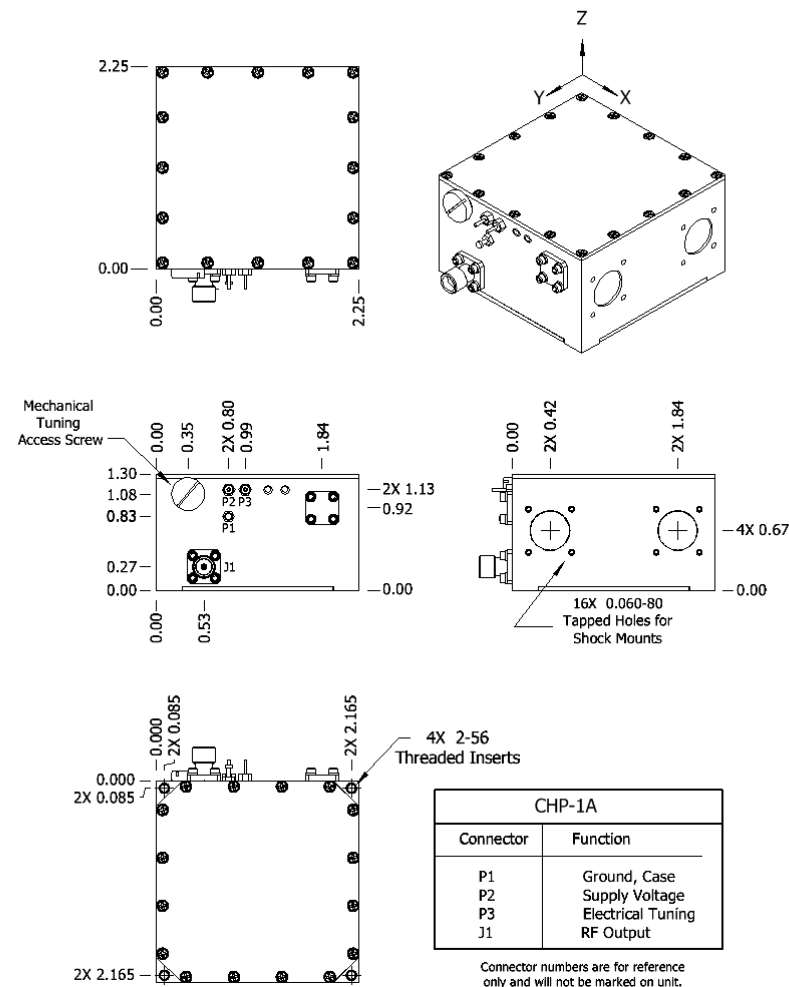
Temperature Stability

Harmonics, Subs, Spurious

Power - Warm-up and Total

Tuning – MT and ET

REV	DATE	REVISION RECORD	DWN	AUTH
-	02-13-12	Initial Release	PAC	
A	03-27-13	Corrected dimension		



## Wenzel Associates, Inc.

Austin, Texas

Title:

**Premium 20 MHz Citrine Plus Crystal Oscillator**

P/N:

**501-25558**

Rev:

**A**

Date:

**03-27-13**

Drawn:

Ref:

ULN

Tolerances:  
(except as noted)  
Dimensions are in inches

0.XX Dec:

$\pm 0.030$

0.XXX Dec:

$\pm 0.010$

FSCM:

**62821**

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