

**OUTPUT****Frequency**

20 MHz

**Level**

+13 dBm ±2 dB into 50 ohms

**STABILITY****Aging**

5 x 10<sup>-10</sup> 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**±5 x 10<sup>-8</sup>, 0° to +50°C (Ref +25°C)**Harmonics**

≤ -30 dBc

**Sub-Harmonics**

≤ -50 dBc

**Non-Harmonic Spurious**

≤ -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**

≤ 9 Watts for 5 minutes at +25°C

**Total Power**

≤ 6 Watts at +25°C

**Supply Voltage**

+15 VDC ±5%

**ADJUSTMENT****Mechanical Tuning**±1 x 10<sup>-6</sup>**Electrical Tuning**±2 x 10<sup>-7</sup> min, ±5 VDC

Negative slope

**CRYSTAL****Type**

10 MHz SC-cut (x2)

**Acceleration Sensitivity**≤ 5 x 10<sup>-10</sup> /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

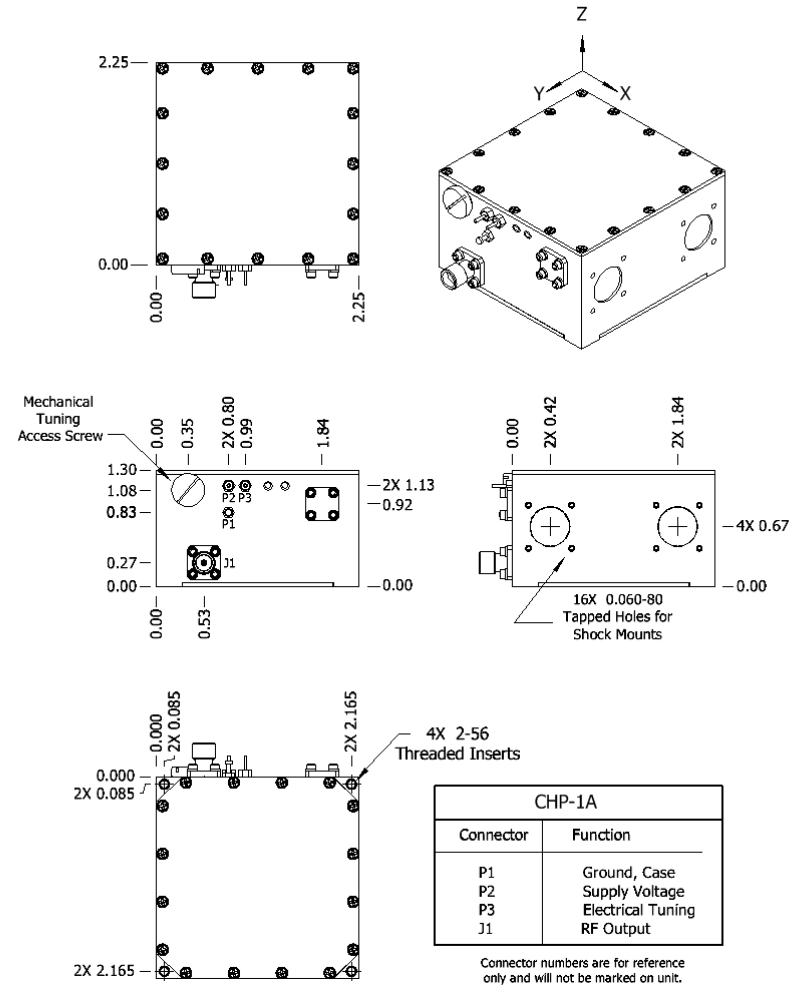
Temperature Stability

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 inches0.XX Dec:  
**±0.030"**0.XXX Dec:  
**±0.010"**FSCM:  
**62821**

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