

OUTPUT

Frequency

10 MHz, dual output

Level

+13 dBm ±2 dB into 50 ohms,
each output

STABILITY

Aging

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

Phase Noise L(f), Static

10 Hz -130 dBc/Hz
100 Hz -155 dBc/Hz
1 kHz -165 dBc/Hz
10 kHz -165 dBc/Hz

Temperature Stability

$\pm 5 \times 10^{-9}$, 0° to +50°C (Ref +25°C)

Harmonics

≤ -30 dBc

Spurious

≤ -90 dBc, excluding power
supply line related spurs

MECHANICAL

Dimensions

2.25 x 2.25 x 0.8"

Connectors

SMA(f) and solder pins on side

Packaging

Nickel-plated machined
aluminum case (CH-2A)

POWER REQUIREMENTS

Warm-Up Power

≤ 5 Watts for 5 minutes

Total Power

≤ 2.5 Watts at +25°C

Supply Voltage

+12 VDC ±5%

ADJUSTMENT

Mechanical Tuning

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

Electrical Tuning

$\pm 2 \times 10^{-7}$, ±5 VDC
Negative slope

CRYSTAL

Type

10 MHz SC-cut (Special Low-G)

SPECIAL

Acceleration Sensitivity

$\leq 5 \times 10^{-10}$ /g per axis, typical

OTHER

Label

Use conventional label with the
following information:

501-24219 (Current Rev.)

10 MHz Citrine

+12 VDC

Serial # - Date Code

Test Data

Output Level

Phase Noise, Static

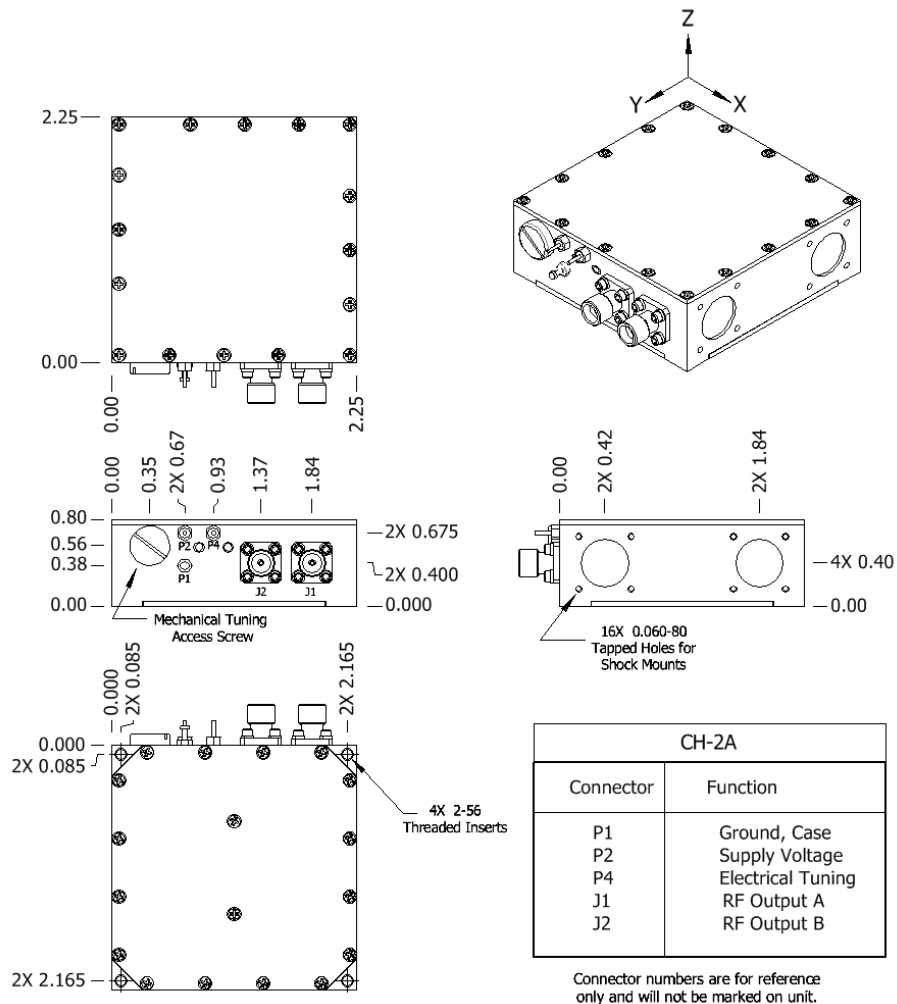
Temperature Stability

Harmonics, Spurious

Power – Warm-up and Total

Tuning – MT and ET

REV	DATE	REVISION RECORD	DWN	AUTH
-	07-08-11	Initial Release	PAC	



CH-2A	
Connector	Function
P1	Ground, Case
P2	Supply Voltage
P4	Electrical Tuning
J1	RF Output A
J2	RF Output B

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



Wenzel Associates, Inc.

Austin, Texas

Title: **10 MHz-SC Citrine Dual Output Crystal Oscillator**

P/N: 501-24219	Rev: -	Date: 07-08-11	Drawn:	Ref: STR
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Tolerances: (except as noted) Dimensions are in inches	0.XX Dec: ±0.030"	0.XXX Dec: ±0.010"	FSCM: 62821	Page 1 of 1
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