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	-140 dBc/Hz
100 Hz	-160 dBc/Hz
1 kHz	-172 dBc/Hz
10 kHz	-172 dBc/Hz

Temperature Stability

$\pm 2 \times 10^{-8}$, 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

POWER REQUIREMENTS

Warm-Up Power

≤ 7.5 Watts for 5 minutes

Total Power

≤ 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

Acceleration Sensitivity

≤ 5×10^{-10} /g per axis, typical

OTHER

Label

Use conventional label with the following information:

501-24221 (Current Rev.)

10 MHz Citrine ULN

+12 VDC

Serial # - Date Code

Test Data

Output Level

Phase Noise, Static

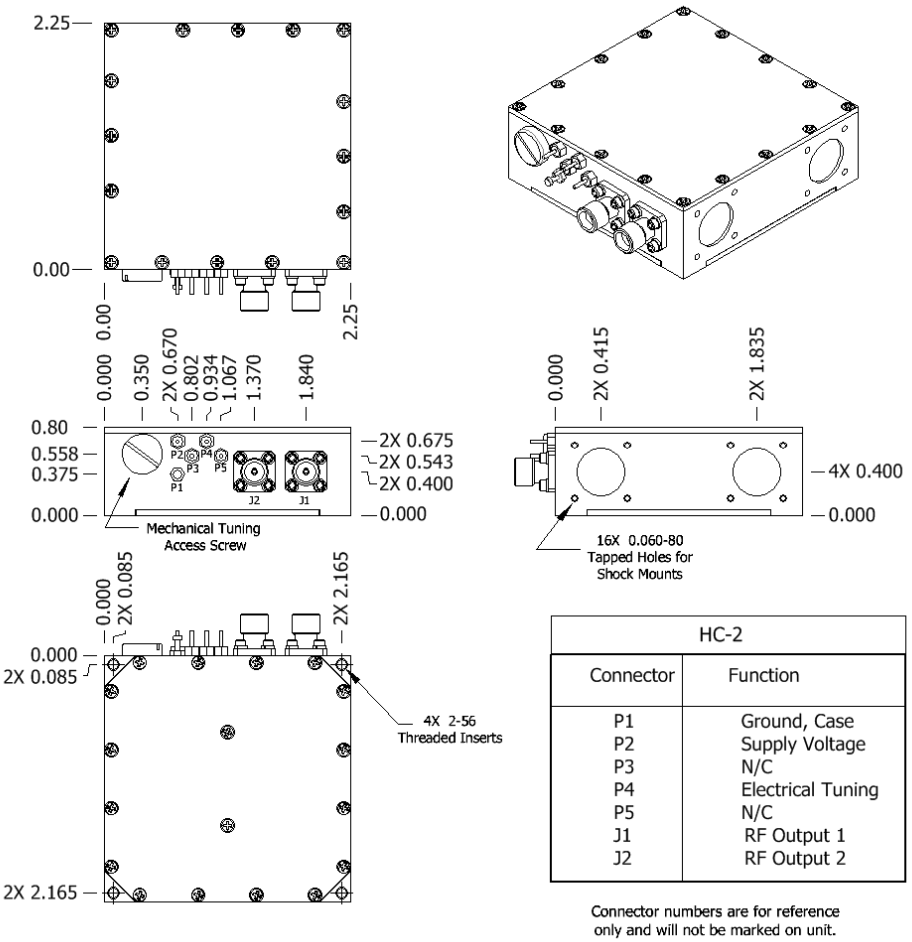
Temperature Stability

Harmonics, Spurious

Power – Warm-up and Total

Tuning – MT and ET

REV	DATE	REVISION RECORD	DWN	AUTH
-	07-08-11	Initial Release	PAC	
A	03-24-16	Close in noise, crystal type	BH	BB
B	06-03-16	Power	BH	MG



HC-2	
Connector	Function
P1	Ground, Case
P2	Supply Voltage
P3	N/C
P4	Electrical Tuning
P5	N/C
J1	RF Output 1
J2	RF Output 2

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 ULN Crystal Oscillator

P/N:	Rev:	Date:	Drawn:	Ref:
501-24221	**B**	**06-03-16**		ULN

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