

OUTPUT

Frequency

10 MHz, dual output

Level

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

STABILITY

Aging

5 x 10⁻¹⁰ per day
after 30 days operating, typical

Phase Noise L(f), Static

10 Hz -135 dBc/Hz
100 Hz -160 dBc/Hz
1 kHz -172 dBc/Hz
10 kHz -172 dBc/Hz

Temperature Stability

±2 x 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

≤ 6 Watts for 5 minutes

Total Power

≤ 3 Watts at +25°C

Supply Voltage

+12 VDC ±5%

ADJUSTMENT

Mechanical Tuning

±1 x 10⁻⁶

Electrical Tuning

±2 x 10⁻⁷, ±5 VDC
Negative slope

CRYSTAL

Type

10 MHz SC-cut (Special Low-G)

SPECIAL

Acceleration Sensitivity

≤ 5 x 10⁻¹⁰ /g per axis, typical

OTHER

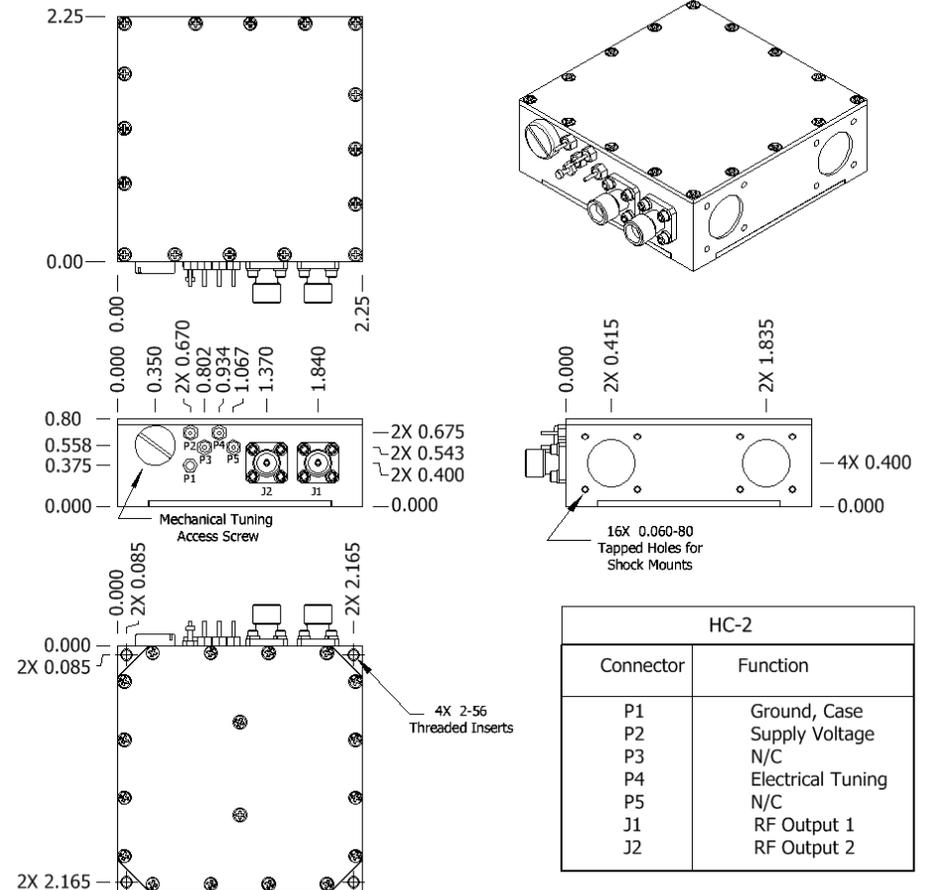
Label

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	



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: 501-24221	Rev: -	Date: 07-08-11	Drawn:	Ref: ULN
Tolerances: (except as noted) Dimensions are in inches	0.XX Dec: ±0.030"	0.XXX Dec: ±0.010"	FSCM: 62821	Page 1 of 1