



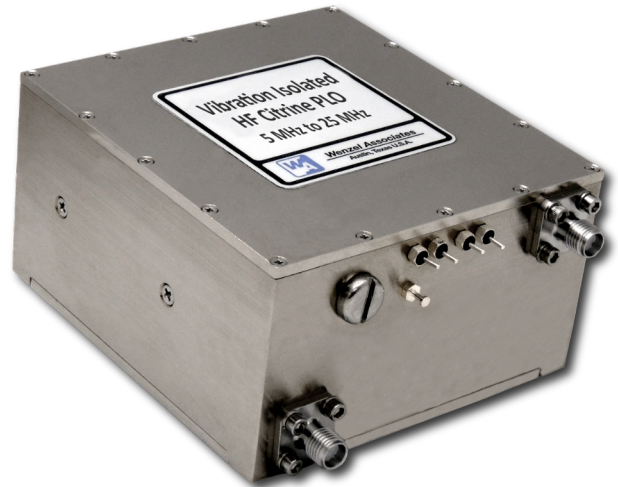
LOW NOISE CRYSTAL OSCILLATORS > VIBRATION ISOLATED HF CITRINE PLO

FEATURES:

- Frequencies from 1 MHz to 125 MHz, fixed
- Standard or Premium Phase Noise
- Ruggedized for Dynamic Environments
- Low G-Sensitivity to 1E-10/g per axis
- Natural Mount Frequency: ~35 Hz, typical
- Effective G-Sensitivity to 5E-12/g (2 kHz offset)

APPLICATIONS:

- Military Applications
- Airborne and Ground
- Radar Systems
- Tactical Radio
- Vehicular Communication



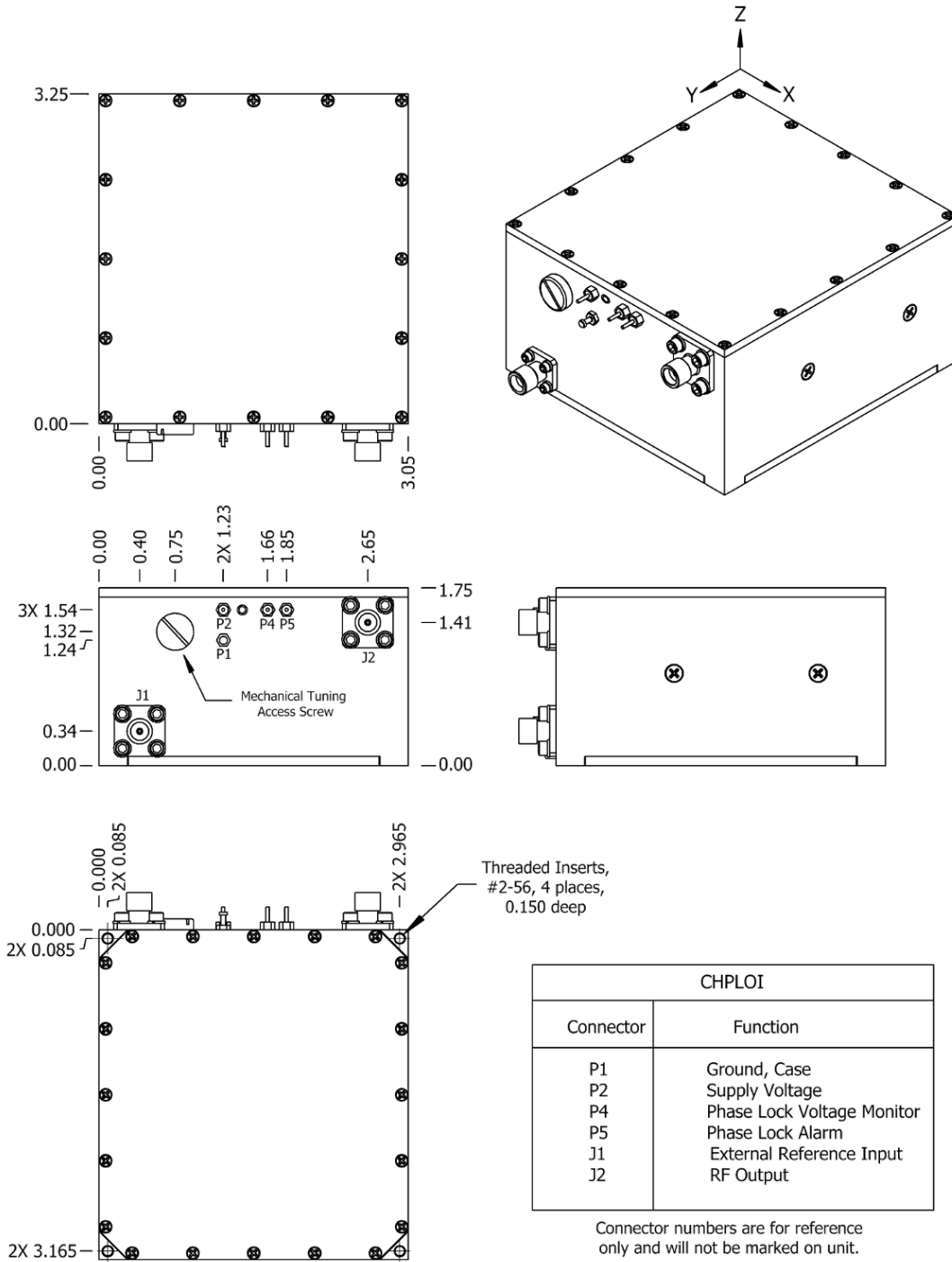
Electrical Specifications	
Output Frequency (fixed; specify within range)	10 MHz to 25 MHz
Output Level	+13 dBm ±2 dB into 50 ohms
External Reference Input Frequency	10 MHz (standard; other options available)
External Reference Input Level	+7 dBm ±6 dB into 50 ohms
Aging	(10 MHz model, typical)
Per day after 30 days operating, typical	5 x 10 ⁻¹⁰
Second year, typical	5 x 10 ⁻⁸
Per year thereafter, typical	3 x 10 ⁻⁸
Temperature Stability (consult factory for other ranges)	(10 MHz model, typical)
Range E: 0 to +50°C (Ref: +25°C)	≤ ±1 x 10 ⁻⁸
Range F: -20 to +70°C (Ref: +25°C)	≤ ±2 x 10 ⁻⁸
Range G: -55 to +85°C (Ref: +25°C)	≤ ±5 x 10 ⁻⁷
Phase Noise	(Frequency Dependent: See Std Specifications and Part Numbers table below for details)
Harmonics	≤ -30 dBc
Sub-Harmonics	≤ -50 dBc
PLL & Divider Products	≤ -50 dBc
Spurious	≤ -80 dBc
PLL Loop Bandwidth	≤ 1 Hz or ≤ 10 Hz
Supply Voltage	+15 VDC or +12 VDC (±5%)
Warm-up	≤ 9 Watts for 5 minutes at +25°C
Total	≤ 6 Watts at +25°C
Crystal Type	SC-cut
Crystal Acceleration Sensitivity	5 x 10 ⁻¹⁰ /g, typical; to 1 x 10 ⁻¹⁰ /g, available
Natural Mount Resonant Frequency	~35 Hz, typical
Mechanical	
Packaging	Nickel-Plated Machined Aluminum
Dimensions	3.25" x 3.05" x 1.75"
Connectors / Mounting	SMA(f) and solder pins on side Threaded Inserts, #2-56, 4 places

DESCRIPTION:

The Vibration Isolated HF Citrine Plus is a 10 MHz to 25 MHz fixed frequency rugged OCXO coupled with an additional circuit such as a multiplier, divider, amplifier or filter, when the application demands something extra, and mounted within an outer enclosure using shock mounts. This integrated assembly can provide a fixed output frequency between 1 MHz and 125 MHz and offers excellent aging and temperature stability, Standard or Premium phase noise and low g-sensitivity (to 1E-10/g per axis). Although vibration isolation may not be a viable solution for some applications, it works well for dampening vibration beyond the natural resonant frequency of the isolated unit and vibration profile. This unit is an ideal solution for airborne and mobile applications with random vibration requiring improved dynamic phase noise performance at offsets at and beyond 80 Hz. Effective g-sensitivity to 5E-12/g (2 kHz offset) can be realized. The nickel-plated machined aluminum outer enclosure is 3.25" x 3.05" x 1.75". An internal voltage regulator is provided for excellent power supply line rejection. Please consult the factory if you need any specifications to be modified to better suit your application.



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CHPLOI	
Connector	Function
P1	Ground, Case
P2	Supply Voltage
P4	Phase Lock Voltage Monitor
P5	Phase Lock Alarm
J1	External Reference Input
J2	RF Output

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