INPUT
Frequency
5 MHz
Level
+13 dBm ±1 dB into 50 ohms
OUTPUT
Frequency
10.5 GHz
Level
+13 dBm ±2 dB into 50 ohms
STABILITY
Aging (free-running)
1 x 10 ⁻⁶ first year
after 30 days operating, typical
5 x 10 ⁻⁷ second year, typical
3 x 10 ⁻⁷ per year thereafter, typical
Phase Noise L(f), typical, (free-running)
100 Hz -77 dBc/Hz
1 KHz -105 dBc/Hz
10 KHz -129 dBc/Hz
100 KHz -130 dBc/Hz
Temperature Stability
±5 x 10 ⁻⁷ free-running from 0 to +50°C
(Ref. +25°C)
Harmonics
-25 dBc
Sub-Harmonics
-60 dBc
PLL Reference Products
-60 dBc
Spurious
-80 dBc, excluding power
supply line related spurs
Phase Lock Alarm
TTL
Locked: +3.5 VDC to +5.2 VDC (Hi)
Out-of-Lock: +0.8 VDC max (Lo)
Phase Lock Voltage Monitor
Voltage monitor pin supplied
MECHANICAL
Dimensions
6.31 x 4 x 1"

Con	nec	tors
•••		

RF Input/Output: SMA(f)

Power, Monitoring: Feed Thru Terminals

GND: Ground Turret

Packaging

Nickel-plated machined aluminum housing – J3PM

Mounting

Threaded inserts on base, 6 places, #2-56

POWER REQUIREMENTS

Warm-Up Power

≤ 20 Watts for 5 minutes

Total Power

≤ 16 Watts at +25°C

Supply Voltage

+15 VDC ±5%

ADJUSTMENT

Loop BW

Target Bandwidth: <300 Hz

Type 2 Loop

CRYSTAL

Type

105 MHz SC-cut (x100)

OTHER

Label

Use conventional label with the

following information:

501-30134 (Current Rev.)

10.5 GHz MXO-PLM

+15 VDC

Serial # - Date Code

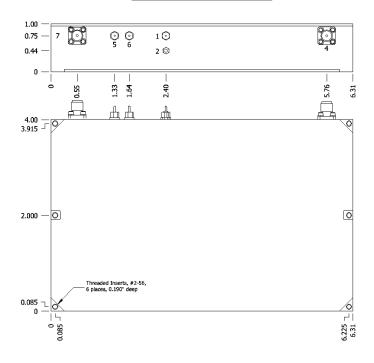
(Mark connectors with function)

Test Data

- Output Level
- Phase Noise free-running
- Harmonics, Subs, Products, Spurious
- Power Warm-up and Total

REV	DATE	REVISION RECORD	DWN	AUTH
-	06-17-16	Initial Release	CB	

J3PM MXO Connections				
Connector	Function			
1 2 4 5 6 7	Supply Voltage Ground, Case RF Output Phase Lock Voltage Phase Lock Alarm External Reference Input			



Wenzel Associates, Inc. Austin, Texas 10.5 GHz Multiplied Crystal Oscillator (MXO-PLM) Rev: Date: Drawn: 28931 501-30134 06-17-16 0.XXX Dec: FSCM: Tolerances: 0.XX Dec: (except as noted) Page 1 of 1 62821 ± 0.030 " ±0.010" Dimensions are in inches