INPUT	
Frequency	
10 MHz	
Level	_
+13 dBm ±1 dB into 50 ohm	S
OUTPUT	
Frequency 13.5 GHz	
Level	
+13 dBm ±2 dB into 50 ohm	2
STABILITY	5
Aging (free-running)	
1 x 10 ⁻⁶ first year	
after 30 days operating, typic	cai
5 x 10 ⁻⁷ second year, typical	
3 x 10 ⁻⁷ per year thereafter,	
Phase Noise L(f), typical, (free	e-running)
100 Hz -78 dBc/Hz	
1 KHz -106 dBc/Hz	
10 KHz -126 dBc/Hz	
100 KHz -127 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 V	DC (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"	

Packaging

Mounting

Nickel-plated machined aluminum housing – J3PM

Threaded inserts on base.

≤ 20.5 Watts for 5 minutes

Target Bandwidth: ~200 Hz

Use conventional label with the

(Mark connectors with function)

- Phase Noise - free-running

- Power - Warm-up and Total

- Harmonics, Subs, Products, Spurious

90 MHz SC-cut (x150)

following information: 501-31000 (Current Rev.) 13.5 GHz MXO-PLM

Serial # - Date Code

- Output Level

≤ 17 Watts at +25°C

6 places, #2-56 **POWER REQUIREMENTS**

Warm-Up Power

Supply Voltage +15 VDC ±5%

ADJUSTMENT Loop BW

CRYSTAL Type

OTHER Label

Type 2 Loop

+15 VDC

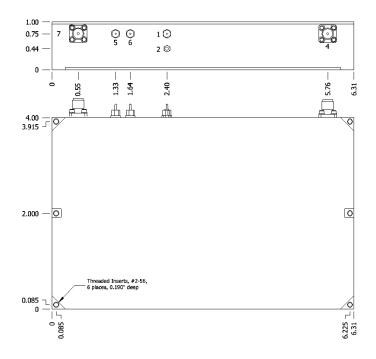
Test Data

Total Power

	REV	DATE	REVISION RECORD	DWN	AUTH
Connectors	-	06-20-17	Initial Release	СВ	
RF Input/Output: SMA(f)					
1 1 1					
Power, Monitoring: Feed Thru Terminals					
GND: Ground Turret					

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		

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 13.5 GHz Multiplied Crystal Oscillator (MXO-PLM) Rev: Date: Drawn: 28931 501-31000 06-20-17 0.XXX Dec: Tolerances: 0.XX Dec: FSCM: (except as noted) Page 1 of 1 62821 ± 0.030 " ±0.010" Dimensions are in inches