INPUT
Frequency
5 MHz
Level
+13 dBm ±1 dB into 50 ohms
OUTPUT
Frequency
5 GHz Level
+13 dBm ±2 dB into 50 ohms
STABILITY
Aging (free-running)
1 x 10 <sup>-6</sup> first year
after 30 days operating, typical
5 x 10 <sup>-7</sup> second year, typical
3 x 10 <sup>-7</sup> per year thereafter, typical
Phase Noise L(f), typical, (free-running)
100 Hz -93 dBc/Hz
1 KHz -120 dBc/Hz
10 KHz -137 dBc/Hz
100 KHz -138 dBc/Hz
Temperature Stability
$\pm 5 \times 10^{-7}$ free-running from 0 to $\pm 50^{\circ}$ 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
5.36 x 4 x 1"
0.00 A T A 1

**Packaging** 

Mounting

Nickel-plated machined aluminum housing - J2PM

Threaded inserts on base,

≤ 17 Watts for 5 minutes

Target Bandwidth: <300 Hz

Use conventional label with the

(Mark connectors with function)

- Phase Noise - free-running

- Power - Warm-up and Total

- Harmonics, Subs, Products, Spurious

100 MHz SC-cut (x50)

following information: 501-29520 (Current Rev.)

Serial # - Date Code

5 GHz MXO-PLM

- Output Level

+15 VDC

**Test Data** 

≤ 13.5 Watts at +25°C

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

Warm-Up Power

**Supply Voltage** 

**ADJUSTMENT** Loop BW

**CRYSTAL Type** 

**OTHER** Label

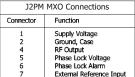
+15 VDC ±5%

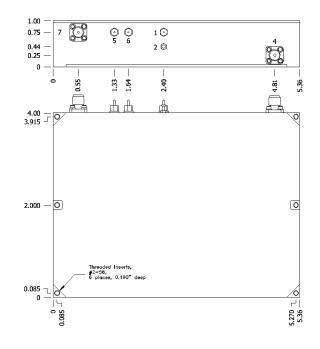
Type 2 Loop

**Total Power** 

	REV	DATE	REVISION RECORD	DWN	AUTH
Connectors	-	10-30-15	Initial Release	CB	
RF Input/Output: SMA(f)					
Power, Monitoring: Feed Thru Terminals					
GND: Ground Turret					

J2PM 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.										
5 GHz Multiplied Crystal Oscillator (MXO-PLM)										
P/N:	Rev:	Date:		Drawn:	Ref:					
501-29520	-	10-30-15								
Tolerances: (except as noted) Dimensions are in inches	0.XX Dec: ±0.03	0"	0.XXX Dec: ±0.010"	FSCM: 62821	Page 1 of 1					