MAIN
INPUT
Frequency
10 MHz
Level
+13 dBm ±1 dB into 50 ohms
OUTPUT
Frequency
2.7 GHz
Level
+13 dBm ±2 dB into 50 ohms
STABILITY
Aging (free-running)
1 x 10 ⁻⁶ first year
after 30 days operating, typical
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 -98 dBc/Hz
1 KHz -124 dBc/Hz
10 KHz -141 dBc/Hz
100 KHz -142 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
5.36 x 4 x 1"

Packaging

Mounting

Nickel-plated machined aluminum housing - J2PM

Threaded inserts on base,

≤ 17.5 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 (x27)

following information: 501-29877 (Current Rev.) 2.7 GHz MXO-PLM

Serial # - Date Code

- Output Level

≤ 14 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

+15 VDC

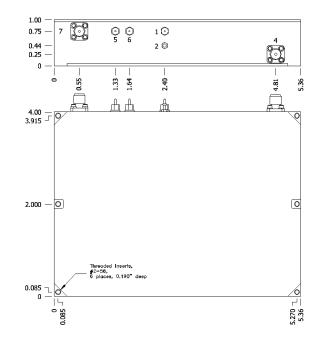
Test Data

Total Power

	REV	DATE	REVISION RECORD	DWN	AUTH
Connectors RF Input/Output: SMA(f) Rever Monitoring: Food Thru Terminals	-	03-22-16	Initial Release	CB	
			-		
Power, Monitoring: Feed Thru Terminals					
GND: Ground Turret					

J2PM	MXO Connections		
Connector	Function		
1 2	Supply Voltage Ground, Case		
5	RF Output Phase Lock Voltage		
6 7	Phase Lock Alarm External Reference Input		

J2PM MXO Connections					
Connector Function					
1	Supply Voltage				
2	Ground, Case RF Output Phase Lock Voltage				
4					
5					
6 Phase Lock Alarm					
7 External Reference Input					



Wenzel Associates, Inc. Austin, Texas								
2.7 GHz Multiplied Crystal Oscillator (MXO-PLM)								
^{P/N:} 501-29877	Rev:	Date 0	3-22-16	Drawn:	Ref:			
Tolerances: (except as noted) Dimensions are in inches	0.XX Dec: ±0.03	0"	0.XXX Dec: ±0.010"	FSCM: 62821	Page 1 of 2			