		REV	DATE	REVISION RECORD	DWN	AUTH
INPUT	Connectors	-	04-12-12	Initial Release	PAC	
Frequency	RF Input/Output: SMA(f)					
10 MHz	Power, Monitoring: Feed Thru Terminals					
Level	GND: Ground Turret					
+13 dBm ±1 dB into 50 ohms	Packaging			J3PM MXO Connections		
OUTPUT	Nickel-plated machined					
Frequency	aluminum housing – J3PM			Connector Function		
11 GHz	Mounting			1 Supply Voltage 2 Ground, Case		
Level	Threaded inserts on base,			4 RF Output		
+13 dBm \pm 2 dB into 50 ohms	6 places, #2-56			5 Phase Lock Voltage 6 Phase Lock Alarm		
STABILITY	POWER REQUIREMENTS			7 External Reference Input		
Aging (free-running)	Warm-Up Power					
1 x 10 ⁻⁶ first year	≤ 18.5 Watts for 5 minutes					
after 30 days operating, typical	Total Power	1.00	<u> </u>			Q
	≤ 15 Watts at +25°C				Ş	6
5×10^{-7} second year, typical	Supply Voltage	0.44 —		2 🛇	4	
3 x 10 ⁻⁷ per year thereafter, typical	+15 VDC ±5%	0	[_
Phase Noise L(f), typical, (free-running)	ADJUSTMENT	0 —				
100 Hz -77 dBc/Hz	Loop BW	0	0.55	1.64	5.76	6.31
1 KHz -105 dBc/Hz	Target Bandwidth: ~200 Hz					ī Ē
10 KHz -127 dBc/Hz	Type 2 Loop	4.00 - 👝	È <u>d</u> a '	<u>ьд д</u>		
100 KHz -128 dBc/Hz	CRYSTAL	3.915				\sim
Temperature Stability						
$\pm 5 \times 10^{-7}$ free-running from 0 to $\pm 50^{\circ}$ C						
	110 MHz SC-cut (x100)					
(Ref. +25°C)	OTHER					
Harmonics	Label					
-25 dBc	Use conventional label with the					
Sub-Harmonics	following information:	2.000 — 🔿				0
-60 dBc	501-25771 (Current Rev.)					
PLL Reference Products	11 GHz MXO-PLM					
-60 dBc	+15 VDC					
Spurious	Serial # - Date Code					
 -80 dBc, excluding power 	(Mark connectors with function)		Threaded	Anarta 43 FC		
supply line related spurs	Test Data		6 places, 0	inserts, #2-56, .190" deep		
Phase Lock Alarm	- Output Level	0.085 –	<			6
TTL	- Phase Noise – free-running	0	`			
Locked: +3.5 VDC to +5.2 VDC (Hi)	- Harmonics, Subs, Products, Spurious	0				6.225 6.31
Out-of-Lock: +0.8 VDC max (Lo)	- Power – Warm-up and Total	č	5			9
Phase Lock Voltage Monitor						
Voltage monitor pin supplied		Wenzel Associates, Inc.				
MECHANICAL		Austin, Texas				
Dimensions		Title:				
6.31 x 4 x 1"		11 GHz Multiplied Crystal Oscillator (MXO-PLM)				
0.01 / 7 / 1		P/N:		Rev: Date: Drawn:	• Ref:	-
			1-25771	- 04-12-12		
		Tolerances (except as	noted)	0.XX Dec: 0.XXX Dec: FSCM: +0.030" +0.010" 6282	1 Page 1 d	of 2
		Dimension	s are in inches	±0.030" ±0.010" 6282		