OUTPUT	s								
	Frequency	Level (into 50Ω)							
А	10 MHz	+13 ±2 dBm							
В	5 GHz	+13 ±2 dBm							
STABILITY									
	Aging								
1 x 10 ⁻⁷ first year after 30 days operating, typical									
5×10^{-8} second year, typical									
2×10^{-8} per year thereafter, typical									
Phase Noise L(f), dBc/Hz, typical									
	10 MHz								
10 Hz	-140	-83							
100 Hz 300 Hz	-160 -165	-101 -106							
1 kHz	-172	-119							
10 kHz	-174	-136							
100 kHz	-175	-138							
100 kHz -175 -138 Temperature Stability $\pm 5 \times 10^{-9}$, 0 to $\pm 50^{\circ}$ C (Ref. $\pm 25^{\circ}$ C) Harmonics $\leq -25 \text{ dBc}$ Sub-Harmonics $\leq -60 \text{ dBc}$ PLL Reference Products $\leq -60 \text{ dBc}$ Spurious $\leq -60 \text{ dBc}$ Spurious $\leq -80 \text{ dBc}$, excluding power supply line related spurs Phase Lock Alarm TTL Locked: $\pm 3.5 \text{ VDC}$ to $\pm 5.2 \text{ VDC}$ (Hi) Out-of-Lock: $\pm 0.8 \text{ VDC}$ max (Lo) Phase Lock Voltage Monitor Voltage monitor pin supplied MECHANICAL Dimensions $6.51 \times 4 \times 1$ " Connectors									
RF Outputs: SMA(f) Power, Monitoring: Feed Thru Terminals GND: Ground Turret									

	REV	DATE	REVISION RECORD				DWN	AUTH		
Packaging	-	07-23-13	Initial	Initial Release			PAC			
Nickel-plated machined										
aluminum housing – J2PMX										
Mounting										
Threaded inserts on base,										
#2-56, 11 places				J2PM	MX MXO Connectio	ons				
POWER REQUIREMENTS				Connector Function						
Warm-Up Power				1 Supply Voltage						
≤ 22.5 Watts for 5 minutes				2 Ground, Case 4 RF Output B						
Total Power				5	Phase Lock Volta					
≤ 15.5 Watts at +25°C				6 8	Phase Lock Alarr RF Output A	n				
Supply Voltage										
+15 VDC ±5%	4.00									
ADJUSTMENT	1.00 — 0.75 —	600			0 10					
Mechanical Tuning (Internal 10 MHz)		$\underline{O} \odot O \\ 8$		© 5	6			4		
$\pm 1 \times 10^{-6}$	0.44 — 0.25 —			2 🛇			6			
	0 —						Q			
Loop BW (Internal 100 MHz PLL)		1								
Target Bandwidth: ~250 Hz	0	0.65		2.49	3.55			5.96 6.51		
Type 2 Loop				n	П		ŕ			
CRYSTAL	4.00 - 0			<u> </u>	<u>h h</u>		F			
Type	3.915 - 🗡	•						×		
100 MHz SC-cut (x50)	3 335	Threaded	Inserts, #2	-56,		A				
OTHER	3.335 —	11 places,	0.190" dee	ep 🔍		O				
Label										
Use conventional label with the										
following information:										
501-25792 (Current Rev.)	2.000 — 🖸	2 m – 🖸						0		
10M/5G MXO-PLMX	1.750 —	,		\odot						
+15 VDC				٢						
Serial # - Date Code										
(Mark connectors with function)										
Test Data										
- Output Level		Me	echanical ti	uning access						
- Phase Noise	0.085 2			ര		ി		6		
 Temperature Stability 	0 — 🖳							 		
 Harmonics, Subs, Products, Spurs 	0	0.395		2.275	3.375	4.435		6.425 6.51		
 Power – Warm-up and Total 	c	i d		2	mi	4		6.0		
	Wenzel Associates, Inc.									
	Austin, Texas									
	10 MHz & 5 GHz									
	Multiplied Crystal Oscillator (MXO-PLMX)									
	P/N: Rev: Date: Drawn: Ref:									
		1-25792		-	07-23-13	D.awn.				
	Tolerances		0.XX D			FROM	<u> </u>			
	(except as		-	030"	0.XXX Dec: ± 0.010"	FSCM: 62821	Page 1	of 1		
	Dimensions	s are in inches	_⊥U.	030	±0.010	02021				