OUTPUTS								
	Frequency	Level (into 50Ω)						
А	10 MHz	+13 ±2 dBm						
В	300 MHz	+13 ±2 dBm						
STABILITY								
Aging	7							
$1 \times 10^{-7}$ first year								
after 30 days operating, typical								
$5 \times 10^{-8}$ second year, typical								
$2  ext{ x } 10^{-8}$ per year thereafter, typical								
Phase Noise L(f), dBc/Hz, typical								
10.11-	10 MHz	300 MHz						
10 Hz	-140	-109						
100 Hz 300 Hz	-160 -165	-127 -133						
1 kHz	-165 -172	-135						
10 kHz	-172	-163						
10 kHz	-175	-165						
100 1012	175	105						
Temperature Stability								
±5 x 10	$0^{-9}$ , 0 to +50°C (	Ref. +25°C)						
Harmonics								
$\leq$ -25 dBc								
Sub-Harmonics								
≤ -60 dBc								
PLL Reference Products ≤ -60 dBc								
Spurious								
$\leq$ -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								
$5.56 \times 4 \times 1''$								
Connectors								
RF Outputs: SMA(f)								
Power, Monitoring: Feed Thru Terminals								
GND: Ground Turret								

	REV	DATE	DATE REVISION RECORD			AUTH		
Packaging	-	07-02-13	Initial Release		PAC			
Nickel-plated machined								
aluminum housing – J1PMX								
Mounting								
Threaded inserts on base,								
#2-56, 9 places								
POWER REQUIREMENTS								
Warm-Up Power		J1PMX	( MXO Connections					
≤ 18 Watts for 5 minutes		Connector	Function	-				
Total Power		1	Supply Voltage	-				
≤ 11 Watts at +25°C		2	Ground, Case					
Supply Voltage		4 5	RF Output B Phase Lock Voltage					
+15 VDC ±5%		6	Phase Lock Alarm RF Output A					
ADJUSTMENT		8						
Mechanical Tuning (Internal 10 MHz)								
$\pm 1 \times 10^{-6}$	1.00 -			0=0				
Loop BW (Internal 100 MHz PLL)	0.75 —			<u>~</u>				
	0.44 — °		2 🔘	4				
Target Bandwidth: ~300 Hz	o — L							
Type 2 Loop <b>CRYSTAL</b>								
	0 0.65		2.49	5.01				
				<u> </u>				
10 MHz SC-cut			<u>, ഫഫ ഫ</u>	<del>È À</del>	۱ ۲۲	I.A.A.		
100 MHz SC-cut (x3) ENVIRONMENT	3.915	Ç	)	8				
	Thre #2-5	aded Inserts,			Í			
Operating Temperature 0 to +50°C	9 pla	ices, 0.190" deep			,			
Storage Temperature					۰			
-50 to +85°C								
OTHER	2.000 — 🖸			0	þ			
Label	1.750 —		Ô	<u> </u>	7			
Use conventional label with the	1000		ě					
following information:					þ			
501-25776 (Current Rev.)								
10M/300M MXO-PLMX					¢.			
+15 VDC	_	<ul> <li>Mechanical tuning access</li> </ul>						
Serial # - Date Code	0.085 2	ſĊ	3	6	Γ			
(Mark connectors with function)				_				
Test Data	0 0.085 0.395	2 375 C	3.375	5.56	0	0.76		
- Output Level		~	i mi	rų _,		0 1		
- Phase Noise								
- Temperature Stability				a a lata a lua				
- Harmonics, Subs, Products, Spurs				sociates, Inc.	i			
- Power – Warm-up and Total	Austin, Texas							
	Title: 10.8.200 MHz Multiplied Crystal Occillator (MXO PLMX)							
	10 & 300 MHz Multiplied Crystal Oscillator (MXO-PLMX)							
	P/N:		Rev: Date:	Drawn:	Re	f:		
	5	01-25776	6 - 07	7-02-13				
	Tolerance	es:	0.XX Dec: 0.X	KXX Dec: FSCM:				
	(except a			0.010" 62821	Page 1 c	of <b>1</b>		
					-			