INPUT Frequency 10 MHz Level +13 dBm ±1 dB into 50 ohms OUTPUT Frequency 3.6 GHz Level +13 dBm ±2 dB into 50 ohms **STABILITY** Aging (free-running) 1×10^{-6} first year after 30 days operating, typical 5×10^{-7} second year, typical 3×10^{-7} per year thereafter, typical Phase Noise L(f), typical, (free-running) 100 Hz -96 dBc/Hz 1 KHz -123 dBc/Hz -140 dBc/Hz 10 KHz 100 KHz -141 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 TTI 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 6.31 x 4 x 1"

	REV	DATE		REVISION RECORD		DWN	AUTH
Connectors	-	07-02-15	Initial Relea	ase		СВ	
RF Input/Output: SMA(f)	A	09-23-15	Changes T	empo range to 0 to +	50C	CB	
Power, Monitoring: Feed Thru Terminals							
GND: Ground Turret							
Packaging							
Nickel-plated machined							
aluminum housing – J3PM			1				
Mounting			Connect	3PM MXO Connections or Function			
Threaded inserts on base,			1	Supply Voltage			
6 places, #2-56			2	Ground, Case RF Output			
POWER REQUIREMENTS			5	Phase Lock Voltage			
Warm-Up Power			6 7	Phase Lock Alarm External Reference In	iput		
\leq 19 Watts for 5 minutes							
Total Power	1.00 —						
≤ 16 Watts at +25°C	0.75 —	7 3	$\bigcirc \bigcirc 6 10$	୭		Çî 🛛	
Supply Voltage	0.44 —		2	0		4	
+15 VDC ±5%	0 —						
ADJUSTMENT		 	1 I I	 2		- 2 11	
Loop BW]0.55		2.40]] 5.76 6.31	
Target Bandwidth: ~200 Hz	4.00 —	 } 	ப் நி				
Type 2 Loop	4.00 — 3.915 ∽	9				~	
CRYSTAL							
-							
100 MHz SC-cut (x36) OTHER							
Label		L					
Use conventional label with the	2.000 —	p				0	
following information:							
501-29201 (Current Rev.)							
3.6 GHz MXO-PLM							
+15 VDC		Threaded	Inserts, #2-56, 0.190" deep				
Serial # - Date Code	0.085 ¬	o piaces,	0.190° deep				
(Mark connectors with function)	0 —	0 <u> </u>					
Test Data	•	0.085 -				6.225 -	
		ö				9	
- Output Level							
- Phase Noise – free-running - Harmonics, Subs, Products, Spurious							
- Power – Warm-up and Total							
- Fower – Wann-up and Total							
	Wenzel Associates, Inc.						
	Austin, Texas						
	3.6 GHz Multiplied Crystal Oscillator (MXO-PLM)						
	P/N: Rev: Date: Drawn: Ref:				28931		
	_						
	Tolerances (except as Dimensions		0.XX Dec: ±0.030	0.XXX Dec:)" ±0.010"	FSCM: 62821	Page 1 c	of 1
	Dimensions		10.030	0.010	02021		