		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					
	Nickel-plated machined					
Frequency	aluminum housing – J2PM			J2PM MXO Connections	1	
2 GHz	Mounting			Connector Function	-	
Level	Threaded inserts on base,			1 Supply Voltage	-	
+13 dBm ±2 dB into 50 ohms	6 places, #2-56			2 Ground, Case		
STABILITY	POWER REQUIREMENTS			5 Phase Lock Voltage		
Aging (free-running)	Warm-Up Power			6 Phase Lock Alarm 7 External Reference Input		
1 x 10 ⁻⁶ first year	≤ 15.5 Watts for 5 minutes]	
after 30 days operating, typical	Total Power		1.00			
5×10^{-7} second year, typical	≤ 12 Watts at +25°C		1.00 — 0.75 —	7		
	Supply Voltage		0.44 —	$7 \underbrace{\bigcirc}_{5 6} 0 0 1 \bigcirc 1 \bigcirc 5 6 2 \odot$	4	
3×10^{-7} per year thereafter, typical	+15 VDC ±5%		0.25 —	2 🖉	EI.	
Phase Noise L(f), typical, (free-running)	ADJUSTMENT		0 — L			
100 Hz -102 dBc/Hz	Loop BW		- 0	0.55 - 1.33 - 1.64 - 2.40 - 2.4	81	5.36 -
1 KHz -129 dBc/Hz	Target Bandwidth: ~200 Hz			-	4.81	ம்
10 KHz -146 dBc/Hz	Type 2 Loop		4.00 —		èA	
100 KHz -147 dBc/Hz	CRYSTAL		4.00 — 3.915 -	Ý		$\langle 0 \rangle$
Temperature Stability	Туре					
$\pm 5 \times 10^{-7}$ free-running from 0 to $+50^{\circ}$ C	100 MHz SC-cut (x20)					
(Ref. +25°C)	OTHER					
Harmonics	Label					
-25 dBc	Use conventional label with the					
Sub-Harmonics	following information:		2.000 — 🖸			0
-60 dBc	501-25489 (Current Rev.)					
PLL Reference Products	2 GHz MXO-PLM					
-60 dBc	+15 VDC					
Spurious	Serial # - Date Code					
-80 dBc, excluding power	(Mark connectors with function)			Threaded Inserts, #2−56, 6 places, 0.190° deep		
supply line related spurs	Test Data		0.085 ¬			
Phase Lock Alarm			0 - 6	5		
TTL	- Output Level		0	ŝ		5.26
Locked: +3.5 VDC to +5.2 VDC (Hi)	- Phase Noise – free-running			õ		ы ^л
Out-of-Lock: +0.8 VDC max (Lo)	- Harmonics, Subs, Products, Spurious					
Phase Lock Voltage Monitor	- Power – Warm-up and Total	-				
				Wenzel Associates, Inc		
Voltage monitor pin supplied		Austin, Texas				
MECHANICAL		Title:				
Dimensions		2	GHz Mul	Itiplied Crystal Oscillator (I		_M)
5.36 x 4 x 1"		P/N:		Rev: Date: Drawn:	Ref:	,
			1-25489	- 04-12-12	INCI.	
		Tolerances (except as	noted)	0.XX Dec: 0.XXX Dec: FSCM:	Page 1 o	_~ 1
		Dimension	s are in inches	±0.030" ±0.010" 62821	Page I o	וכ
		1				