		REV	DATE	REVISION RECORD DWN	AUTH
INPUT	Connectors	-	03-28-12	Initial Release PAC	
Frequency	RF Input/Output: SMA(f)				
10 MHz	Power, Monitoring: Feed Thru Terminals			l	
Level	GND: Ground Turret				
+7 dBm ±6 dB into 50 ohms	Packaging		-		
OUTPUT	Nickel-plated machined			J1P MXO Connections	
Frequency	aluminum housing – J1P			Connector Function	
840 MHz	Mounting			1 Supply Voltage	
Level	Threaded inserts on base,			2 Ground, Case	
+13 dBm ±2 dB into 50 ohms	6 places, #2-56			4 RF Output 5 Phase Lock Voltage	
STABILITY	POWER REQUIREMENTS			6 Phase Lock Alarm	
Aging (free-running)	Warm-Up Power			7 External Reference Input	
1×10^{-6} first year	\leq 10 Watts for 5 minutes				
after 30 days operating, typical	Total Power		1.00 —	6.0	
	≤ 7 Watts at +25°C		0.75 —		
5×10^{-7} second year, typical	Supply Voltage		0.44 —	20 4	
3×10^{-7} per year thereafter, typical	+15 VDC ±5%		0.25 —		
Phase Noise L(f), typical, (free-running)	ADJUSTMENT		0 —		
100 Hz -102 dBc/Hz	Loop BW			0 0.40 0.649 0.664 0.668	
1 KHz -132 dBc/Hz	Target Bandwidth: ≤ 10 Hz				
10 KHz -155 dBc/Hz	Type 2 Loop		4 00 —		
100 KHz -156 dBc/Hz	CRYSTAL		4.00 — 3.915 -	0	
Temperature Stability	Туре				
±5 x 10 ⁻⁷ free-running from 0 to +50°C	120 MHz SC-cut (x7)				
(Ref. +25°C)	OTHER				
Harmonics	Label				
-25 dBc	Use conventional label with the				
Sub-Harmonics	following information:				
-60 dBc	501-25464 (Current Rev.)		2.000 —	0 0	
PLL Divider Products	840 MHz MXO-PLD				
-60 dBc	+15 VDC				
Spurious	Serial # - Date Code				
 -80 dBc, excluding power 	(Mark connectors with function)				
supply line related spurs	Test Data			Threaded Inserts, #2-56, 6 places, 0.190" deep	
Phase Lock Alarm	- Output Level		0.085 ¬		
TTL	- Phase Noise – free-running		0.005		
Locked: +3.5 VDC to +5.2 VDC (Hi)	- Harmonics, Subs, Products, Spurious			230 085 0 345 J	
Out-of-Lock: +0.8 VDC max (Lo)	- Power – Warm-up and Total			0.085 3.360 3.45	
Phase Lock Voltage Monitor				A/ 1 A 1 / 1	
Voltage monitor pin supplied				Nenzel Associates, Inc.	
MECHANICAL		77.4		Austin, Texas	
Dimensions		Title:		ultiplied Crystal Oscillator (MXO	ים ום.
3.45 x 4 x 1"					-
		P/N:	4 05 40 4		Ref:
		50	1-25464	- 03-28-12	
		Tolerances (except as		0.XX Dec: 0.XXX Dec: FSCM:	1.1
			are in inches	±0.030" ±0.010" 62821 Page 2	l of l