		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					
$+13 \text{ dBm} \pm 1 \text{ dB}$ into 50 ohms	Packaging					
OUTPUT	Nickel-plated machined			J1PM MXO Connections		
Frequency	aluminum housing – J1PM				-	
840 MHz	Mounting			Connector Function	_	
Level	Threaded inserts on base,			1 Supply Voltage 2 Ground, Case		
+13 dBm \pm 2 dB into 50 ohms	6 places, #2-56			4 RF Output		
STABILITY	POWER REQUIREMENTS			5 Phase Lock Voltage 6 Phase Lock Alarm		
Aging (free-running)	Warm-Up Power			7 External Reference Input		
1×10^{-6} first year	≤ 13 Watts for 5 minutes					
	Total Power		1.00 —			
after 30 days operating, typical	≤ 9.5 Watts at +25°C		0.75 — 7 🕅		<u> </u>	
5 x 10^{-7} second year, typical	Supply Voltage		0.44 —	- 56 20	4	
3 x 10 ⁻⁷ per year thereafter, typical	+15 VDC ±5%					
Phase Noise L(f), typical, (free-running)	ADJUSTMENT					
100 Hz -102 dBc/Hz	Loop BW		0	0.55 - 1.33 - 1.64 - 2.40 - 2.40 -	3.85 - 3.85 - 4.40 -	
1 KHz -132 dBc/Hz	Target Bandwidth: ~200 Hz				₩ 4	
10 KHz -155 dBc/Hz	Type 2 Loop		4.00	ய் நிற		
100 KHz -156 dBc/Hz	CRYSTAL		4.00		···· 0	
Temperature Stability	Туре					
$\pm 5 \times 10^{-7}$ free-running from 0 to $\pm 50^{\circ}$ 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	501-25757 (Current Rev.)		2.000 — 🖸		0	
PLL Reference Products	840 MHz MXO-PLM					
-60 dBc	+15 VDC					
Spurious						
-80 dBc, excluding power	Serial # - Date Code					
supply line related spurs	(Mark connectors with function)			Threaded Inserts,		
Phase Lock Alarm	Test Data			#2-56, 6 places, 0.190" deep		
TTL	- Output Level		0.085 _ 🗙		6	
Locked: +3.5 VDC to +5.2 VDC (Hi)	- Phase Noise – free-running		0 - 5			
Out-of-Lock: +0.8 VDC max (Lo)	- Harmonics, Subs, Products, Spurious		085		.315	
Phase Lock Voltage Monitor	- Power – Warm-up and Total	-	ö		4, 1	
Voltage monitor pin supplied		Wenzel Associates, Inc.				
MECHANICAL		Austin, Texas				
Dimensions		Title:				
4.40 x 4 x 1"		840) MHz M	ultiplied Crystal Oscillat	or (MXO-F	PLM)
		P/N:		Rev: Date: Drawn:	Ref:	
			1-25757	- 04-12-12		
		Tolerances	8:	0.XX Dec: 0.XXX Dec: FSCM:		
		(except as Dimension	noted) s are in inches	±0.030" ±0.010" 628	21 Page 1	of 2