		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					
\pm 13 dBm \pm 1 dB into 50 ohms	Packaging					
OUTPUT	Nickel-plated machined			J3PM MXO Connections]	
Frequency	aluminum housing – J3PM			Connector Function	-	
5.12 GHz	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		
	Warm-Up Power			7 External Reference Input		
Aging (free-running)	\leq 19.5 Watts for 5 minutes					
1 x 10 ⁻⁶ first year	Total Power	1.00 —				
after 30 days operating, typical		0.75 — 7	000 (X I
5 x 10 ⁻⁷ second year, typical	≤ 16 Watts at +25°C	0.44 —		56 2©	4	30 ⁹
3 x 10 ⁻⁷ per year thereafter, typical	Supply Voltage					
Phase Noise L(f), typical, (free-running)	+15 VDC ±5% ADJUSTMENT	0 —				
100 Hz -93 dBc/Hz		0	0.55	2.40 - 2.40	5.76	6.31
1 KHz -118 dBc/Hz	Loop BW				2	- 0 -
10 KHz -135 dBc/Hz	Target Bandwidth: ~200 Hz	4.00	ם הבוש	ЩЩ ЦЩ ЦЦ Ц		
100 KHz -136 dBc/Hz	Type 2 Loop	4.00 — 3.915 」 [♥				0
Temperature Stability	CRYSTAL]
	Туре					
$\pm 5 \times 10^{-7}$ free-running from 0 to $\pm 50^{\circ}$ C	80 MHz SC-cut (x64)					
(Ref. +25°C)	OTHER					
Harmonics	Label					
-25 dBc	Use conventional label with the					
Sub-Harmonics	following information:	2.000 — 🖸				0
-60 dBc	501-25766 (Current Rev.)					
PLL Reference Products	5.12 GHz MXO-PLM					
-60 dBc	+15 VDC					
Spurious	Serial # - Date Code					
-80 dBc, excluding power	(Mark connectors with function)		Threaded I	nserts, #2-56,		
supply line related spurs	Test Data		6 places, 0.			
Phase Lock Alarm	- Output Level	0.085	•			<u>⁄o</u>
TTL	 Phase Noise – free-running 	~ h				
Locked: +3.5 VDC to +5.2 VDC (Hi)	- Harmonics, Subs, Products, Spurious	0				6.225 6.31
Out-of-Lock: +0.8 VDC max (Lo)	- Power – Warm-up and Total	c	,			ų
Phase Lock Voltage Monitor	·		1			
Voltage monitor pin supplied		Wenzel Associates, Inc.				
MECHANICAL		Austin, Texas				
Dimensions		5.12 GHz Multiplied Crystal Oscillator (MXO-PLM)				
6.31 x 4 x 1"					<u> </u>	
		P/N:		Rev: Date: Drawn:	Ref:	
		50	1-25766	- 04-12-12		
		Tolerances (except as		0.XX Dec: 0.XXX Dec: FSCM:		0
			s are in inches	±0.030" ±0.010" 628	21 Page 1	of Z