		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			J1PM MXO Connections	1	
Frequency	aluminum housing – J1PM			Connector Function	-	
500 MHz	Mounting				-	
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		
$1 \times 10^{-6}$ first year	≤ 12.5 Watts for 5 minutes					
-	Total Power		1.00 —		0-0	
after 30 days operating, typical	≤ 9 Watts at +25°C		0.75 — 7 🖗		<u>F</u>	
5 x $10^{-7}$ second year, typical	Supply Voltage		0.44 —	56 20	4	
3 x 10 <sup>-7</sup> per year thereafter, typical	+15 VDC ±5%					
Phase Noise L(f), typical, (free-running)	ADJUSTMENT					
100 Hz -115 dBc/Hz	Loop BW		0	0.55 0.55 1.33 1.64 2.40	3.85 4.40	
1 KHz -143 dBc/Hz	Target Bandwidth: ~200 Hz				• 4	
10 KHz -159 dBc/Hz	Type 2 Loop		4 00 — E		<u>k</u>	
100 KHz -160 dBc/Hz	CRYSTAL		4.00 — 3.915 -		Ŷ	
Temperature Stability	Туре					
±5 x 10 <sup>-7</sup> free-running from 0 to +50°C	100 MHz SC-cut (x5)					
(Ref. +25°C)	OTHER					
Harmonics	Label					
-25 dBc	Use conventional label with the					
Sub-Harmonics	following information:					
-60 dBc	501-25484 (Current Rev.)		2.000 — 🔿		0	
PLL Reference Products	500 MHz MXO-PLM					
-60 dBc	+15 VDC					
Spurious	Serial # - Date Code					
-80 dBc, excluding power						
supply line related spurs	(Mark connectors with function) Test Data			Threaded Inserts,		
Phase Lock Alarm				#2−56, 5 places, 0.190" dsep		
TTL	- Output Level		0.085 _		6	
Locked: +3.5 VDC to +5.2 VDC (Hi)	- Phase Noise – free-running				<u>ا</u> لے	
Out-of-Lock: +0.8 VDC max (Lo)	- Harmonics, Subs, Products, Spurious		0		1.315	
Phase Lock Voltage Monitor	- Power – Warm-up and Total		O		4, ,	
Voltage monitor pin supplied				Nenzel Associates, Ir	IC.	
MECHANICAL		Austin, Texas				
Dimensions		Title:				
4.40 x 4 x 1"		500	) MHz M	ultiplied Crystal Oscillate	or (MXO-F	PLM)
		P/N:		Rev: Date: Drawn:	Ref:	
		50	1-25484	- 04-12-12		
		Tolerances		0.XX Dec: 0.XXX Dec: FSCM:		
		(except as Dimension	noted) is are in inches	±0.030" ±0.010" 628	21 Page 1 d	of <b>2</b>
		1				