		REV	DATE				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							
OUTPUT	Nickel-plated machined			J3PM	MXO Connection	ns		
Frequency	aluminum housing – J3PM			Connector	Function			
9 GHz	Mounting			1	Supply Voltage			
Level	Threaded inserts on base,			2	Ground, Case			
+13 dBm ±2 dB into 50 ohms	6 places, #2-56			5	RF Output Phase Lock Volta	ige		
STABILITY	POWER REQUIREMENTS			6	Phase Lock Alarr External Referen			
Aging (free-running)	Warm-Up Power							
1 x 10 ⁻⁶ first year	≤ 20 Watts for 5 minutes							
after 30 days operating, typical	Total Power	1.00					<u> </u>	9
5×10^{-7} second year, typical	≤ 16.5 Watts at +25°C						Į.	5
	Supply Voltage	0.44 —		2 ©			4	
3 x 10 ⁻⁷ per year thereafter, typical	+15 VDC ±5%	0	[_
Phase Noise L(f), typical, (free-running)	ADJUSTMENT	ľ l						
100 Hz -82 dBc/Hz	Loop BW	0	0.55	1.33 1.6 4 2.40			5.76	6.31
1 KHz -110 dBc/Hz	Target Bandwidth: ~300 Hz		\Box]
10 KHz -130 dBc/Hz	Type 2 Loop	4.00 - 0					<u>Å</u>	
100 KHz -131 dBc/Hz	CRYSTAL	3.915						×
Temperature Stability	Туре							
±5 x 10 ⁻⁷ free-running from 0 to +50°C	90 MHz SC-cut (x100)							
(Ref. +25°C)	OTHER							
Harmonics	Label							
-25 dBc	Use conventional label with the							
Sub-Harmonics	following information:	2.000 — 🔿						0
-60 dBc	501-25769 (Current Rev.)	2.000						
PLL Reference Products	9 GHz MXO-PLM							
-60 dBc	+15 VDC							
Spurious	Serial # - Date Code							
-80 dBc, excluding power	(Mark connectors with function)							
supply line related spurs	Test Data		Threaded I 6 places, 0	nserts, #2-56, 190" deep				
Phase Lock Alarm	- Output Level	0.085 –						6
TTL	- Phase Noise – free-running	0 — 🗠	\					
Locked: +3.5 VDC to +5.2 VDC (Hi)	- Harmonics, Subs, Products, Spurious	0						6.225
Out-of-Lock: +0.8 VDC max (Lo)	- Power – Warm-up and Total	6	5					6.2
Phase Lock Voltage Monitor								
Voltage monitor pin supplied		Wenzel Associates, Inc.						
MECHANICAL		Austin, Texas						
Dimensions		Title:						
6.31 x 4 x 1"		9 GHz Multiplied Crystal Oscillator (MXO-PLM)						_IVI)
		P/N: Rev: Date: Drawn: Ref:						
		50	1-25769	- 0	4-12-12			
		Tolerance (except as		0.XX Dec:	0.XXX Dec:	FSCM:	_ 1	.2
			s are in inches	±0.030"	±0.010"	62821	Page 1 o	ot ∠
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