OUTPUTS

Output	Frequency	Level (into 50Ω)
A	10 MHz	+13 ±2 dBm
B	80 MHz	+13 ±2 dBm
C	720 MHz	+13 ±2 dBm

STABILITY

Aging

1×10^{-7} first year
after 30 days operating, typical
5×10^{-8} second year, typical
3×10^{-8} per year thereafter, typical

Phase Noise L(f), dBc/Hz, typical

	10 MHz	80 MHz	720 MHz
10 Hz	-140	-120	-99
100 Hz	-160	-140	-119
300 Hz	-165	-143	-124
1 kHz	-172	-155	-134
10 kHz	-174	-174	-153
100 kHz	-175	-176	-155

Temperature Stability

$\pm 1 \times 10^{-8}$, 0 to +50°C (Ref. +25°C)

Harmonics

≤ -25 dBc

Sub-Harmonics

≤ -60 dBc

PLL Reference Products

≤ -60 dBc

Spurious

≤ -80 dBc, excluding power
supply line related spurs

Phase Lock Alarm

TTL
Locked: +3.5 VDC to +5.2 VDC (Hi)
Out-of-Lock: +0.8 VDC max (Lo)

Phase Lock Voltage Monitor

Voltage monitor pin supplied

MECHANICAL

Dimensions

6.51 x 4 x 1"

Connectors

RF Outputs: SMA(f)
Power, Monitoring: Feed Thru Terminals
GND: Ground Turret

Packaging

Nickel-plated machined
aluminum housing – J2PMX-03

Mounting

Threaded inserts on base,
#2-56, 11 places

POWER REQUIREMENTS

Warm-Up Power

≤ 20 Watts for 5 minutes

Total Power

≤ 13.5 Watts at +25°C

Supply Voltage

+15 VDC ±5%

ADJUSTMENT

Mechanical Tuning (Internal 10 MHz)

$\pm 1 \times 10^{-6}$

Loop BW (Internal 80 MHz PLL)

Target Bandwidth: ~300 Hz
Type 2 Loop

CRYSTAL

Type

10 MHz SC-cut
80 MHz SC-cut (x9)

ENVIRONMENT

Operating Temperature

0 to +50°C

Storage Temperature

-50 to +85°C

OTHER

Label

Use conventional label with the
following information:
501-30387 (Current Rev.)
10M/80M/720M MXO-PLMX
+15 VDC
Serial # - Date Code
(Mark connectors with function)

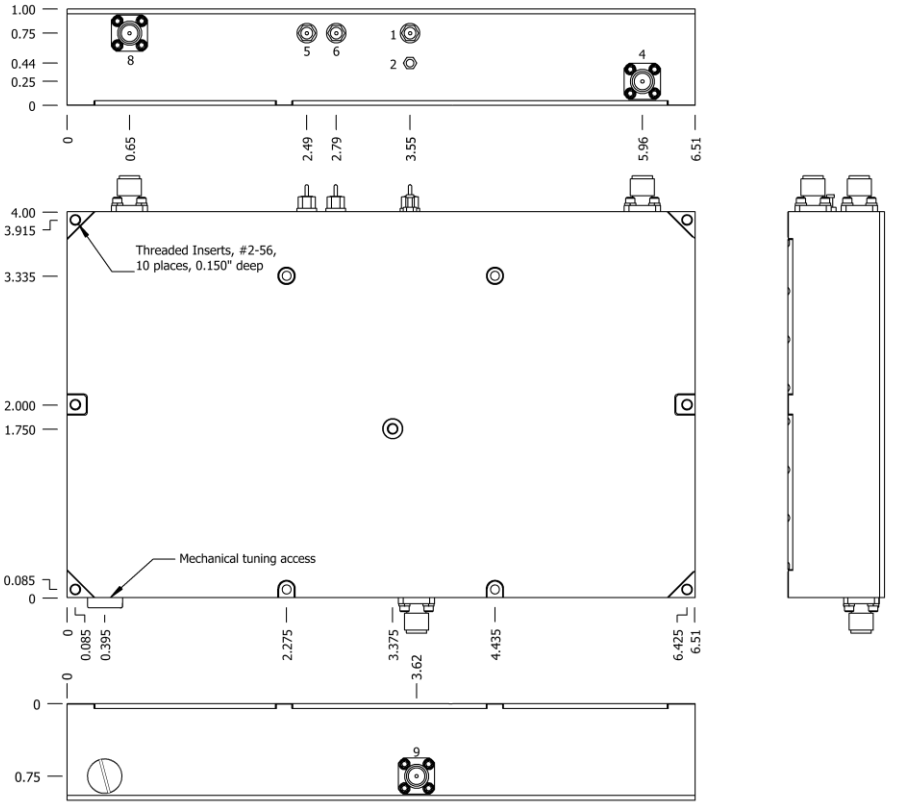
Test Data

- Output Level
- Phase Noise
- Temperature Stability
- Harmonics, Subs, Products, Spurs
- Power – Warm-up and Total

REV	DATE	REVISION RECORD	DWN	AUTH
-	10-05-16	Initial Release	PAC	

J2PMX-03 MXO Connections

Connector	Function
1	Supply Voltage
2	Ground, Case
4	RF Output C
5	Phase Lock Voltage
6	Phase Lock Alarm
8	RF Output A
9	RF Output B



Wenzel Associates, Inc.
Austin, Texas

Title: **10/80/720 MHz Multiplied Crystal Oscillator (MXO-PLMX)**

P/N:	Rev:	Date:	Drawn:	Ref:
501-30387	-	10-05-16		

Tolerances: (except as noted) Dimensions are in inches	0.XX Dec:	0.XXX Dec:	FSCM:	Page 1 of 1
	±0.030"	±0.010"	62821	