

OUTPUTS

Output	Frequency	Level (into 50Ω)
A	10 MHz	+13 ±2 dBm
B	100 MHz	+13 ±2 dBm
C	1 GHz	+13 ±2 dBm

STABILITY

Aging

- 1 x 10⁻⁷ first year
- after 30 days operating, typical
- 5 x 10⁻⁸ second year, typical
- 2 x 10⁻⁸ per year thereafter, typical

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

	10 MHz	100 MHz	10 GHz
10 Hz	-140	-120	-77
100 Hz	-160	-138	-95
300 Hz	-165	-144	-99
1 kHz	-172	-157	-112
10 kHz	-174	-174	-129
100 kHz	-175	-176	-132

Temperature Stability

- ±5 x 10⁻⁹, 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

- 7.46 x 4 x 1"

Connectors

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

Packaging

- Nickel-plated machined aluminum housing – J3PMX-05

Mounting

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

POWER REQUIREMENTS

Warm-Up Power

- ≤ 26 Watts for 5 minutes

Total Power

- ≤ 19 Watts at +25°C

Supply Voltage

- +15 VDC ±5%

ADJUSTMENT

Mechanical Tuning (Internal 10 MHz)

- ±1 x 10⁻⁶

Loop BW (Internal 100 MHz PLL)

- Target Bandwidth: ~300 Hz
- Type 2 Loop

CRYSTAL

Type

- 100 MHz SC-cut (x100)

OTHER

Label

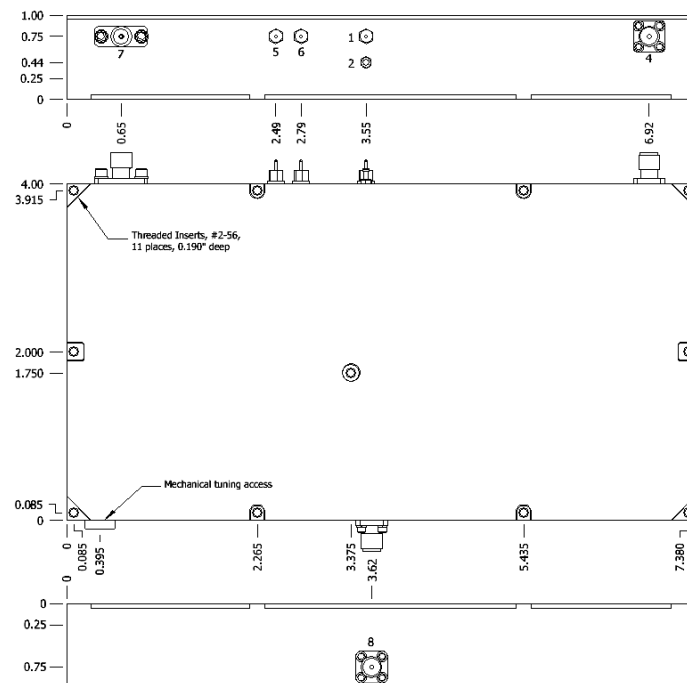
- Use conventional label with the following information:
- 501-25939 (Current Rev.)
- 10M/100M/10GHz MXO-PLMX
- +15 VDC
- Serial # - Date Code
- (Mark connectors with function)

Test Data

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

REV	DATE	REVISION RECORD	DWN	AUTH
-	06-13-12	Initial Release	PAC	

J3PMX-05 MXO Connections	
Connector	Function
1	Supply Voltage
2	Ground, Case
4	RF Output C
5	Phase Lock Voltage
6	Phase Lock Alarm
7	RF Output A
8	RF Output B



Wenzel Associates, Inc.
Austin, Texas

Title:

**10 MHz, 100 MHz & 10 GHz
Multiplied Crystal Oscillator (MXO-PLMX)**

P/N:

501-25939

Rev:

-

Date:

06-13-12

Drawn:

Ref:

Tolerances:
(except as noted)
Dimensions are in inches

0.XX Dec:

±0.030"

0.XXX Dec:

±0.010"

FSCM:

62821

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