, ,				
В	100 MHz	+13 :	+13 ±2 dBm	
С	1 GHz	+13 :	+13 ±2 dBm	
STABILITY				
Aging	•			
Aying	-7 first			
1 x 10 ⁻⁷ first year				
after 30 days operating, typical				
5 x 10 ⁻⁸ second year, typical				
3 x 10 ⁻⁸ per year thereafter, typical				
Phase Noise L(f), dBc/Hz, typical				
	10 MHz	100 MHz	1 GHz	
10 Hz	-135	-113	-91	
100 Hz	-160	-134	-112	
300 Hz	-162	-136	-114	
1 kHz	-165	-155	-133	
10 kHz	-165	-175	-153	
100 kHz	-165	-176	-154	
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 6.51 x 4 x 1" Connectors RF Outputs: SMA(f) Power, Monitoring: Feed Thru Terminals GND: Ground Turret				

OUTPUTS

Output

Α

Frequency

10 MHz

Level (into 50Ω)

+13 ±2 dBm

≤ 13 Watts at +25°C

Loop BW (Internal 100 MHz PLL)

Target Bandwidth: ~200 Hz

Use conventional label with the

(Mark connectors with function)

- Power - Warm-up and Total

100 MHz SC-cut (x10)

following information: 501-25499 (Current Rev.) 10M/100M/1GHz MXO-PLMX

Serial # - Date Code

- Temperature Stability

Supply Voltage

ADJUSTMENT

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

CRYSTAL

Type

OTHER Label

Type 2 Loop

+15 VDC

- Output Level - Phase Noise

Test Data

+15 VDC ±5%

REVISION RECORD REV DATE DWN AUTH 05-17-12 Initial Release PAC **Packaging** Nickel-plated machined aluminum housing – J2PMX-03 Mounting Threaded inserts on base, J2PMX-03 MXO Connections #2-56, 11 places Connector Function POWER REQUIREMENTS Supply Voltage Warm-Up Power Ground, Case RF Output C ≤ 19.5 Watts for 5 minutes Phase Lock Voltage Phase Lock Alarm **Total Power**

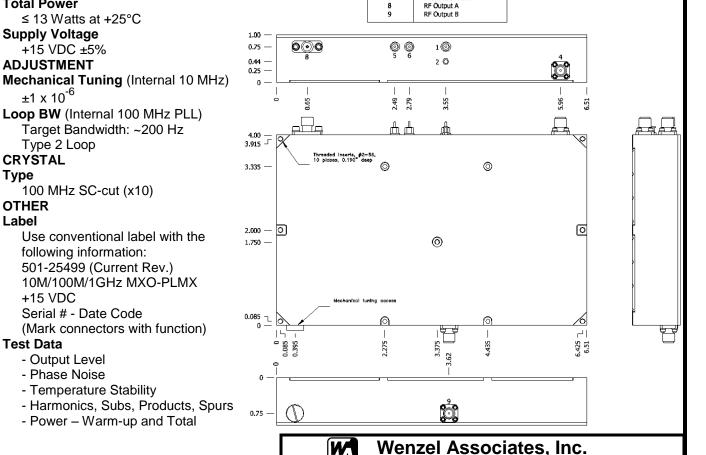
Title:

Tolerances:

(except as noted)

Dimensions are in inches

501-25499



Austin, Texas

10 MHz, 100 MHz & 1 GHz **Multiplied Crystal Oscillator (MXO-PLMX)**

05-17-12

±0.010"

0.XXX Dec:

Rev:

0.XX Dec:

±0.030"

Drawn:

62821

Page 1 of 1

FSCM: