# INPUT Frequency 10 MHz Level +13 dBm ±1 dB into 50 ohms OUTPUTS

RF Output	Frequency	Output Level (into 50 ohms)
Α	80 MHz	+13 dBm ±2 dB
В	320 MHz	+13 dBm ±2 dB

# STABILITY Aging (free-running)

1 x 10<sup>-6</sup> first year after 30 days operating, typical 5 x 10<sup>-7</sup> second year, typical 3 x 10<sup>-7</sup> per year thereafter, typical

# Phase Noise L(f), typical, (free-running)

	80 MHz	320 MH
100 Hz	-130	-119
1 kHz	-158	-144
10 kHz	-174	-160
100 kHz	-175	-161

# Temperature Stability

±5 x 10<sup>-7</sup> free-running from 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** 

4.40 x 4 x 1"

#### Connectors

RF Input/Output: SMA(f)

Power, Monitoring: Feed Thru Terminals

**GND: Ground Turret** 

#### **Packaging**

Nickel-plated machined aluminum housing – J1PM-01

#### Mounting

Threaded inserts on base, 6 places. #2-56

#### **POWER REQUIREMENTS**

# Warm-Up Power

≤ 13 Watts for 5 minutes

#### **Total Power**

≤ 10 Watts at +25°C

# **Supply Voltage**

+15 VDC ±5%

#### **ADJUSTMENT**

#### Loop BW

Target Bandwidth: ~200 Hz Type 2 Loop

# CRYSTAL

# Type

80 MHz SC-cut (x4)

#### **OTHER**

#### Label

Use conventional label with the following information: 501-27784 (Current Rev.)

80M/320M MXO-PLM

+15 VDC

Serial # - Date Code

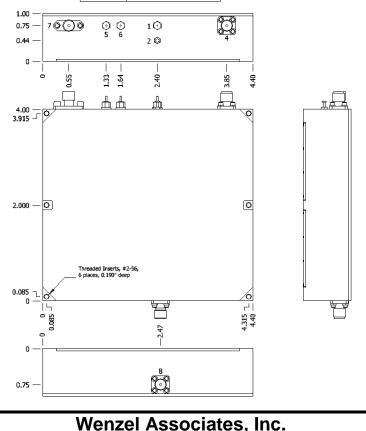
(Mark connectors with function)

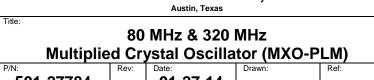
#### **Test Data**

- Output Level
- Phase Noise free-running
- Harmonics, Subs, Products, Spurious
- Power Warm-up and Total

REV	DATE	REVISION RECORD	DWN	AUTH
-	01-27-14	Initial Release	PAC	

J1PM-01 MXO Connections		
Connector	Function	
1 2 4 5 6 7 8	Supply Voltage Ground, Case RF Output B Phase Lock Voltage Phase Lock Alarm External Reference Input RF Output A	





 501-27784
 01-27-14

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