# INPUT Frequency 10 MHz Level +7 dBm ±6 dB into 50 ohms OUTPUT A

# RF Output Frequency Output Level (into 50 ohms) A 80 MHz +13 dBm ±2 dB

B 640 MHz +13 dBm ±2 dB B 640 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), dBc/Hz, typical, (free-running)

	80 MHZ	640 MH
10 Hz	-102	-82
100 Hz	-132	-112
1 kHz	-158	-137
10 kHz	-175	-154
100 kHz	-176	-155

#### 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 Divider 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**

4.4 x 4 x 1"

#### **Connectors**

RF Input/Outputs: SMA(f)
Power, Monitoring: Feed Thru

#### Terminals

**GND: Ground Turret** 

#### **Packaging**

Nickel-plated machined aluminum housing – J2P-03

#### Mounting

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

#### POWER REQUIREMENTS

Warm-Up Power

≤ 12 Watts for 5 minutes

#### **Total Power**

≤ 9 Watts at +25°C

#### **Supply Voltage**

+15 VDC ±5%

#### **ADJUSTMENT**

#### Loop BW

Target Bandwidth: ≤ 10 Hz

Type 2 Loop

#### CRYSTAL

#### Type

80 MHz SC-cut (x8)

#### **OTHER**

#### Label

Use conventional label with the following information: 501-30923 (Current Rev.) 80/640MHz MXO-PLD

+15 VDC

Serial # - Date Code

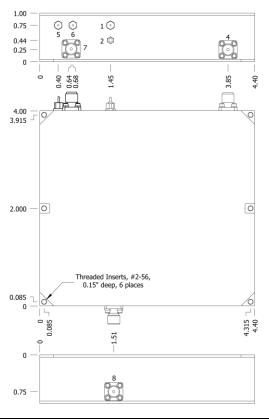
(Mark connectors with function)

#### **Test Data**

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

REV	DATE	REVISION RECORD	DWN	AUTH
-	05-24-17	Initial Release	PAC	

J2P-03 MXO Connections					
Connector	Function				
1 2 4 5 6 7	Supply Voltage Ground, Case RF Output B Phase Lock Voltage Phase Lock Alarm External Reference Input				
8	RF Output A				





80M/640M Multiplied Crystal Oscillator (MXO-PLD)

P/N:		Rev:	Da	ate:		Drawn:		Ref:
501-30923		-		05-24-17				
Tolerances: (except as noted) Dimensions are in inches	-	Dec: 0.030"		0.XXX Dec: ±0.010"	F	sсм: <b>62821</b>	Page	e 1 of 1