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

Output Level RF Output Frequency (into 50 ohms) 100 MHz +13 dBm +2 dB В 3 GHz

+13 dBm ±2 dB

STABILITY

Aging (free-running)

1 x 10⁻⁶ first year after 30 days operating, typical 5 x 10⁻⁷ second year, typical 3 x 10⁻⁷ per year thereafter, typical

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

łz
3
3
5
2
3

Temperature Stability

±5 x 10⁻⁷ 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/Output: 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

≤ 15 Watts for 5 minutes

Total Power

≤ 12 Watts at +25°C

Supply Voltage

+15 VDC ±5%

ADJUSTMENT

Loop BW

Target Bandwidth: ≤ 10 Hz

Type 2 Loop

CRYSTAL

Type

100 MHz SC-cut (x30)

OTHER

Label

Use conventional label with the

following information:

501-28527 (Current Rev.)

100M/3G MXO-PLD

+15 VDC

Serial # - Date Code

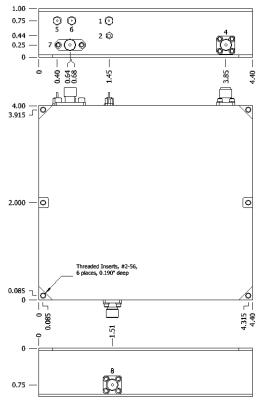
(Mark connectors with function)

Test Data

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

REV	DATE	REVISION RECORD	DWN	AUTH
-	10-23-14	Initial Release	PAC	
		_		

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





100M/3G Multiplied Crystal Oscillator (MXO-PLD)

501-28527		Rev. ■	L	10-23-14		Diawii.		Rei.
Tolerances: (except as noted) Dimensions are in inches	-	Dec: 0.030"	,	0.XXX Dec: ±0.010"	F	ъсм: 62821	Page	1 of 1