INPUT Frequency 10 MHz						
Level						
+7 dBm	±6 dB ir	nto 50 oh	ms			
OUTPUTS						
			Outn	ut Level		
RF Outpu	t Fre	quency		io chms)		
			` ,			
Α	_	0 MHz	+13 dBm ±2 dB			
В	70	0 MHz	+10 dE	3m ±2 dB		
С	3.	5 GHz	+10 dE	+10 dBm ±2 dB		
D	7	GHz	+13 dE	3m ±2 dB		
STABILITY						
Aging (free	-runnin	ıq)				
1 x 10 ⁻⁶ 1	first vea	r				
		erating, t	vpical			
5 x 10 ⁻⁷	second	year, typi	ical			
2 × 10 ⁻⁷	oor vooi	thereaft	or typic	ol.		
Phase Nois				aı		
(free-runni		ubc/nz, i	урісаі,			
(III ee-I ullilli	100	700	3.5	7		
	MHz	MHz	GHz	, GHz		
10 Hz	-100	-82	-67	-60		
	-130	-112	-97	-90		
	-158	-140	-124	-117		
10 kHz	-175	-157	-141	-134		
100 kHz	-176	-158	-142	-135		
1 MHz	-176	-158	-142	-135		
Temperatu	re Stab	ility				
±5 x 10 ⁻	ree-ru	nning fro	m 0 to +	50°C		
(Ref. +2	5°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
riiase	LUCK	v Ullaye	MICHILLO

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-0123

Mounting

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

POWER REQUIREMENTS

Warm-Up Power

≤ 14 Watts for 5 minutes

Total Power

≤ 10.5 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 (x70)

OTHER

Label

Use conventional label with the following information:

501-30164 (Current Rev.)

100M/700M/3.5G/7G MXO-PLD

+15 VDC

Serial # - Date Code

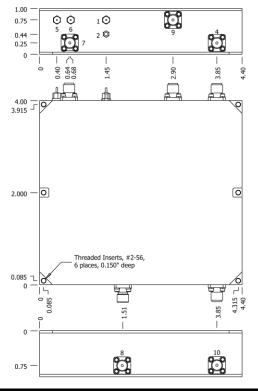
(Mark connectors with function)

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
-	07-06-16	Initial Release	PAC	

J2P-0123 MXO Connections			
Connector	Function		
1 2 4 5 6 7 8 9	Supply Voltage Ground, Case RF Output D Phase Lock Voltage Phase Lock Alarm External Reference Input RF Output A RF Output A RF Output B RF Output C		







100 MHz, 700 MHz, 3.5 GHz & 7 GHz Multiplied Crystal Oscillator (MXO-PLD)

501-30164		ev:	07-06-16	Drawn:		Rei:
Tolerances: (except as noted) Dimensions are in inches	-	Dec: 0.030"	0.XXX Dec: ±0.010"	sсм: 62821	Page	1 of 1