

OUTPUT A

Frequency

100 MHz

Level

+13 dBm ±2 dB into 50 ohms

Phase Noise L(f), Static

100 Hz -130 dBc/Hz

1 kHz -158 dBc/Hz

10 kHz -173 dBc/Hz

100 kHz -175 dBc/Hz

OUTPUT B

Frequency

8 GHz

Level

+13 dBm ±2 dB into 50 ohms

Phase Noise L(f), Static

100 Hz -89 dBc/Hz

1 KHz -116 dBc/Hz

10 KHz -133 dBc/Hz

100 KHz -134 dBc/Hz

STABILITY

Aging

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

Temperature Stability

±5 x 10⁻⁷, 0° to +50°C (Ref +25°C)

Harmonics

≤ -25 dBc

Sub-Harmonics

≤ -50 dBc

Spurious

≤ -80 dBc, excluding power supply line related spurs

MECHANICAL

Dimensions

4.16 x 4 x 1"

Connectors

SMA(f) and solder pins

Packaging

Nickel-plated machined aluminum housing – J3-05

Mounting

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

POWER REQUIREMENTS

Warm-Up Power

≤ 16 Watts for 5 minutes

Total Power

≤ 13 Watts at +25°C

Supply Voltage

+15 VDC ±5%

ADJUSTMENT

Mechanical Tuning

±4 x 10⁻⁶

Electrical Tuning

±5 x 10⁻⁷, ±5 VDC

Negative slope

CRYSTAL

Type

100 MHz SC-cut (x80)

OTHER

Label

Use conventional label with the following information:

501-25665 (Current Rev.)

100 MHz/8 GHz MXO-FR

+15 VDC

Serial # - Date Code

(Mark connectors with function)

Test Data

Output Level

Phase Noise – Static

Temperature Stability

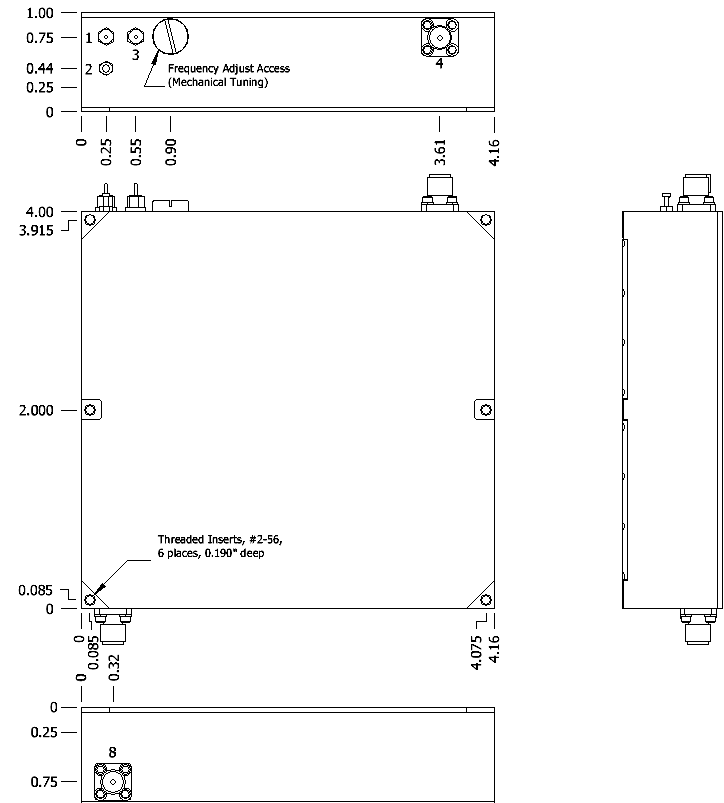
Harmonics, Subs, Spurious

Power - Warm-up and Total

Tuning – MT and ET

REV	DATE	REVISION RECORD	DWN	AUTH
-	03-12-12	Initial Release	PAC	

J3-05 MXO Connections	
Connector	Function
1	Supply Voltage
2	Ground, Case
3	Electrical Tuning
4	RF Output B
8	RF Output A



Wenzel Associates, Inc.

Austin, Texas

Title:

100 MHz & 8 GHz Multiplied Crystal Oscillator (MXO-FR)

P/N:

501-25665

Rev:

-

Date:

03-12-12

Drawn:

Ref:

Tolerances:
(except as noted)
Dimensions are in inches

0.XX Dec:

±0.030"

0.XXX Dec:

±0.010"

FSCM:

62821

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