

OUTPUT

Frequency

1 GHz

Level

+13 dBm ±2 dB into 50 ohms

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

Phase Noise L(f), typical

100 Hz -109 dBc/Hz
 1 KHz -136 dBc/Hz
 10 KHz -153 dBc/Hz
 100 KHz -154 dBc/Hz

Temperature Stability

±5 x 10⁻⁷, 0° to +50°C (Ref +25°C)

Harmonics

≤ -25 dBc

Sub-Harmonics

≤ -60 dBc

Spurious

≤ -80 dBc, excluding power supply line related spurs

MECHANICAL

Dimensions

2.25 x 4 x 1"

Connectors

SMA(f) and solder pins

Packaging

Nickel-plated machined aluminum housing – J1

Mounting

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

POWER REQUIREMENTS

Warm-Up Power

≤ 9.5 Watts for 5 minutes

Total Power

≤ 6.0 Watts at +25°C

Supply Voltage

+12 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 (x10)

OTHER

Label

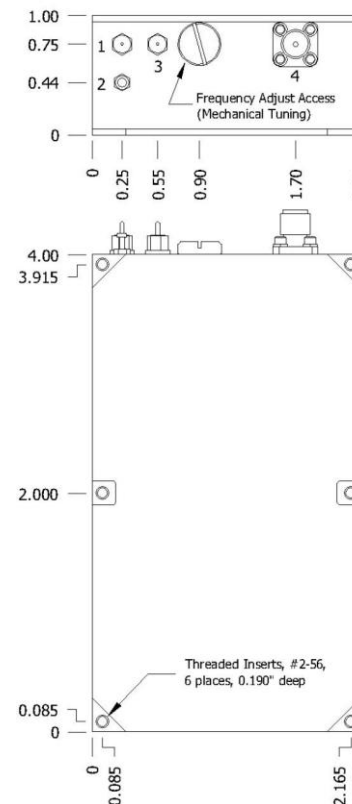
Use conventional label with the following information:
 501-26482 (Current Rev.)
 1 GHz MXO-FR
 +12 VDC
 Serial # - Date Code
 (Mark connectors with function)

Test Data

Output Level
 Phase Noise
 Temperature Stability
 Harmonics, Subs, Spurious
 Power – Warm-up and Total
 Tuning – MT and ET

REV	DATE	REVISION RECORD	DWN	AUTH
-	12-11-12	Initial Release	PAC	

J1 MXO Connections	
Connector	Function
1	Supply Voltage
2	Ground, Case
3	Electrical Tuning
4	RF Output



Wenzel Associates, Inc.
 Austin, Texas

Title:
1 GHz Multiplied Crystal Oscillator (MXO-FR)

P/N: 501-26482	Rev: -	Date: 12-11-12	Drawn:	Ref:
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Tolerances: (except as noted) Dimensions are in inches	0.XX Dec: ±0.030"	0.XXX Dec: ±0.010"	FSCM: 62821	Page 1 of 1
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