#### OUTPUTS

Output	Frequency	Level (into 50Ω)
Α	600 MHz	+13 ±2 dBm
В	1.2 GHz	+13 ±2 dBm

## STABILITY Aging

 $1 \times 10^{-6}$  first year after 30 days operating, typical  $5 \times 10^{-7}$  second year, typical  $3 \times 10^{-7}$  per year thereafter, typical

## Phase Noise L(f), dBc/Hz, typical 600 MHz 1.2 GHz

	600 MHz	1.2 GHz
10 Hz	-84	-78
100 Hz	-114	-108
1 kHz	-138	-132
10 kHz	-161	-155
100 kHz	-163	-157
1 MHz	-164	-158

# **Temperature Stability**

±5 x 10<sup>-7</sup>, 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**

4.21 x 4 x 1"

#### **Connectors**

RF Outputs: SMA(f)

Power, ET: Feed Thru Terminals

**GND: Ground Turret** 

## **Packaging**

Nickel-plated machined aluminum housing – G2-13

## Mounting

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

# **POWER REQUIREMENTS**

## Warm-Up Power

≤ 16 Watts for 5 minutes

#### **Total Power**

≤ 12 Watts at +25°C

## **Supply Voltage**

+15 VDC ±5%

#### **ADJUSTMENT**

## **Mechanical Tuning**

 $\pm 4 \times 10^{-6}$ 

## **Electrical Tuning**

±5 x 10<sup>-7</sup>, ±5 VDC Negative Slope

### **CRYSTAL**

## Type

120 MHz SC-cut (x5, x2)

# OTHER

#### Label

Use conventional label with the following information: 501-31537 (Current Rev.) 600M/1.2G GMXO-FR

+15 VDC

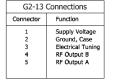
Serial # - Date Code

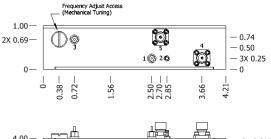
(Mark connectors with function)

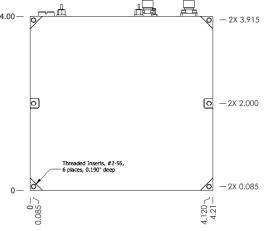
#### **Test Data**

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

REV	DATE	REVISION RECORD	DWN	AUTH
-	03-15-18	Initial Release	CB	







# Wenzel Associates, Inc. Austin, Texas

600 MHz & 1.2 GHz Golden

Multiplied Crystal Oscillator (GMXO-FR)

P/N:	Rev:	Date:	Drawn:	Ref:	
501-31537	-	03-15-18			
Tolerances: (except as noted) Dimensions are in inches	Dec: 0.030"	0.XXX Dec: ±0.010"	FSCM: 62821	Page 1 of 1	