OUTPUTS

Output	Frequency	Level (into 50Ω)			
Α	100 MHz	+16 ±2 dBm			
В	500 MHz	+18 ±2 dBm			

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), dBc/Hz, typical

	100 MHz	500 MHz
10 Hz	-105	-85
100 Hz	-136	-120
1 kHz	-162	-146
10 kHz	-183	-167
100 kHz	-188	-170

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

3.25 x 4 x 1"

Connectors

RF Outputs: SMA(f)

Power, ET: Feed Thru Terminals

GND: Ground Turret

Packaging

Nickel-plated machined aluminum housing – G1-01

Mounting

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

POWER REQUIREMENTS

Warm-Up Power

≤ 13 Watts for 5 minutes

Total Power

≤ 8 Watts at +25°C

Supply Voltage

+15 VDC ±5%

ADJUSTMENT

Mechanical Tuning

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

Electrical Tuning

±5 x 10⁻⁷, ±5 VDC Negative Slope

CRYSTAL

Type

100 MHz SC-cut (x5)

OTHER

Label

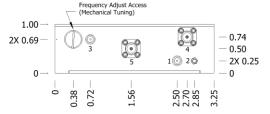
Use conventional label with the following information: 501-26872 (Current Rev.) 100M/500M GMXO-FR +15 VDC Serial # - Date Code (Mark connectors with function)

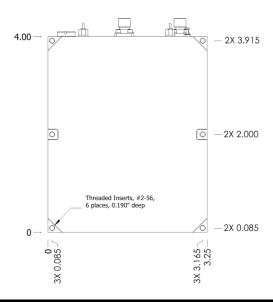
Test Data

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

REV	DATE	REVISION RECORD	DWN	AUTH
-	05-30-13	Initial Release	PAC	
Α	6-26-13	Noise	Liz	
В	10-15-13	Warm-up to 13 Watts; Total to 8 Watts	PAC	MG

G1-01 Connections					
Connector	Function				
1 2	Supply Voltage Ground, Case Electrical Tuning				
3					
4 5	RF Output B RF Output A				
	·				





M

Title:

Wenzel Associates, Inc.

Austin, Texas

100 MHz & 500 MHz Golden
Multiplied Crystal Oscillator (GMXO-FR)

501-26872		Rev:	Date 1	0-15-13		Drawn:		Ref:
Tolerances: (except as noted) Dimensions are in inches	_	Dec: 0.030"		XXX Dec: ±0.010"	F	scм: 62821	Page	e 1 of 1