			REV	DATE	REVISION RECORD	DWN	AUTH
OUTPUTS			-	5-20-16	Initial Release	CB	
Output	Frequency	Level (into 50Ω)					
Cutput	. ,	•					
Α	640 MHz	+13 ±2 dBm					
В	1.28 GHz	+10 ±2 dBm					
Ь	1.20 GHZ	1 TO 12 CIDIT					

E STABILITY

С

D

Aging

(free-running)

1 x 10⁻⁶ first year

after 30 days operating, typical

2.56 GHz

5.12 GHz

10.24 GHz

5 x 10⁻⁷ second year, typical

3 x 10⁻⁷ per year thereafter, typical

Phase Noise L(f), dBc/Hz, typical

(free-running)

	640 MHz	1.28 GHz	2.56 GHz	5.12 GHz	10.24 GHz
10 Hz	-85	-78	-72	-66	-60
100 Hz	-115	-108	-102	-96	-90
1 kHz	-141	-135	-129	-123	-117
10 kHz	-163	-157	-151	-144	-138
100 kHz	-164	-158	-152	-145	-139

+10 ±2 dBm

+10 ±2 dBm

+10 ±2 dBm

Temperature Stability

±5 x 10⁻⁷, 0 to +50°C (Ref. +25°C),

free-running

Harmonics

≤ -25 dBc

Sub-Harmonics

≤ -60 dBc

Spurious

≤ -80 dBc, excluding power supply line related spurs (DC to 42 GHz)

MECHANICAL

Dimensions

5.16 x 4 x 1"

Connectors

RF Outputs: SMA(f)

Power, Monitoring: Feed Thru Terminals

GND: Ground Turret

Packaging

Nickel-plated machined aluminum housing – G3-12345

Mounting

Threaded inserts on base,

#2-56, 6 places

POWER REQUIREMENTS

Warm-Up Power

≤ 23 Watts for 5 minutes

Total Power

≤ 19 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

128 MHz SC-cut (x5,x2,x2,x2,x2)

OTHER Label

Use conventional label with the following information:

501-30054 (Current Rev.) 640M &1.28/2.56/5.12/10.24G GMXO-FR

+15 VDC

Serial # - Date Code

(Mark connectors with function)

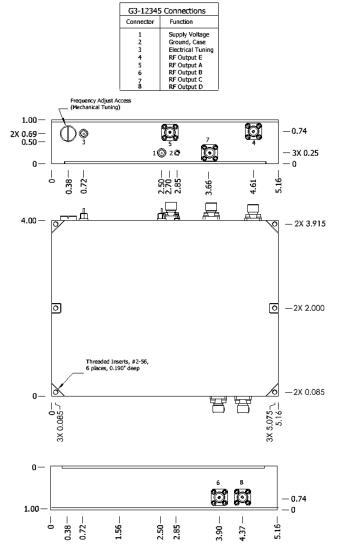
Test Data

Output Level
Phase Noise
Temperature Stability

Harmonics, Subs, Spurious

Tuning – MT and ET

Power – Warm-up and Total



Wenzel Associates, Inc. Austin, Texas								
Title:								
C40/4200/25C0/5420/40240 MUL Caldon								
640/1280/2560/5120/10240 MHZ Golden								
Multiplied Crystal Oscillator (GMXO-FR)								
				Ref:				
P/N:			Diawii.	Rei.				
501-30054		05-20-16						
		00 20 10						
U XX	Dec:	U XXX Dec.	FSCM:	<u> </u>				
				2 2				
+0	ነ በସበ"	l +0 010"	62821	Page 2 of 2				
	,		0_0	-				
	:80/ ied	280/2560 ied Crys Rev: -	Rev: Date: - 05-20-16	Austin, Texas 280/2560/5120/10240 MHz Go ied Crystal Oscillator (GMX) Rev: Date: Date: Drawn: - 05-20-16 0.XXX Dec: 0.XXX Dec: FSCM:				