INPUT Frequency 10 MHz Level +13 dBm ±1 dB into 50 ohms OUTPUT Frequency 160 MHz Level +13 dBm ±2 dB into 50 ohms **STABILITY** Aging (free-running) 1 x 10⁻⁶ first year after 30 days operating, typical 5×10^{-7} second year, typical 3×10^{-7} per year thereafter, typical Phase Noise L(f), typical (free-running) 10 Hz -96 dBc/Hz 100 Hz -126 dBc/Hz 1 KHz -154 dBc/Hz 10 KHz -173 dBc/Hz 100 KHz -175 dBc/Hz **Temperature Stability** $\pm 5 \times 10^{-7}$ free-running from 0 to $\pm 50^{\circ}$ C (Ref. +25°C) Harmonics -25 dBc **Sub-Harmonics** -60 dBc **PLL Reference Products** -60 dBc **Spurious** -80 dBc, excluding power supply line related spurs **MECHANICAL Dimensions** 5.4 x 4 x 1" Connectors RF Outputs: SMA(f) Power, ET: Feed Thru Terminals GND: Ground Turret Packaging Nickel-plated machined aluminum housing – G1PM Mounting Threaded inserts on base,

#2-56, 6 places

POWER REQUIREMENTS	REV	DATE
Warm-Up Power	-	05-05-1
≤ 15 Watts for 5 minutes		
Total Power		
≤ 11 Watts at +25°C		
Supply Voltage		
+15 VDC ±5%		
ADJUSTMENT		
Target Bandwidth: ~ 300 Hz		
Type 2 Loop		
PHASE LOCK STATUS		
Phase Lock Alarm		
TTL		
Locked: +3.5 VDC to +5.2 VDC (Hi)		
Out-of-Lock: +0.8 VDC max (Lo)	1.00 0.75	7 6
Phase Lock Voltage Monitor		_ ′ 🔐
Electrical tuning monitor pin supplied	0.44	-
CRYSTAL	0	
Туре		0 1
80 MHz SC-cut (x2)		
OTHER		
Label	4.00 3.915	г 9 ⁄
Use conventional label with the		[
following information:		
501-29009 (Current Rev.)		
160M GMXO-PLM		
+15 VDC		
Serial # - Date Code	2.000	
(Mark connectors with function)	2.000	
Test Data		
Output Level		
Phase Noise (free-running)		
Temperature Stability (free-running)		
Harmonics, Subs, Products, Spurious		
Power – Warm-up and Total	0.085	<u> </u>
	0	15
		0.085
		W/

-	05-05-15	Initial Release	9		BH	MG
			M MXO Connections			
		Connector 1 2 4 5 6 7	Function Supply Voltage Ground, Case RF Output Phase Lock Voltage Phase Lock Alarm External Reference In	put		
1.00 · 0.75 ·	7		1 () 2 ()	9		
0 -	_ [
	0]] 0.55	1.33	2.40	F]] 4.85 5.40	
4.00 - 3.915 -		<u>_</u>		Æ	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
2.000 -	-0				0	
	Three 6 pl	eaded Inserts, #2-56, aces, 0.190" deep				
0.085 - 0 -	0.085				5.32 ∟ <mark>0</mark> 5.40 _	
		Nenzel	Associate	s, Inc.		
e:			MHz Golde)-PLM)
1:		ed Cryst			D-PLM	

REVISION RECORD

AUTH

DWN