INPUT Frequency 10 MHz Level +13 dBm ±1 dB into 50 ohms OUTPUTS **Output** Frequency Level (into 50Ω) А 100 MHz +16 ±2 dBm В 500 MHz +16 +2 dBm **STABILITY** Aging (free-running) 1 x 10<sup>-6</sup> 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), typical, dBc/Hz, (free-running) 100 MHz 500 MHz 10 Hz -105 -89 100 Hz -136 -120 1 kHz -162 -146 -183 10 kHz -167 -188 -170 100 kHz 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 Divider 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

	REV	DATE	REVISION RECO	ORD
Packaging	-	06-23-14	Initial Release	
Nickel-plated machined				
aluminum housing – G1PM-01				
Mounting				
Threaded inserts on base,				
#2-56, 6 places				
POWER REQUIREMENTS			G1PM-01 M	IXO Connectio
Warm-Up Power			Connector F	unction
≤ 17 Watts for 5 minutes				upply Voltage
Total Power			4 R	F Output B
≤ 13 Watts at +25°C			6 P	hase Lock Voltage hase Lock Alarm
Supply Voltage				xternal Reference F Output A
+15 VDC ±5%				
ADJUSTMENT	1.00			
Target Bandwidth: ~ 300 Hz	0.75		○ ○ 1 ○ 5 6	
Type 2 Loop	0.44	-	2 🛇	
PHASE LOCK STATUS	0			
Phase Lock Alarm		0 - 0	1.33 - 1.64 - 2.40 -	
TTL				
Locked: +3.5 VDC to +5.2 VDC (Hi)	4.00			
Out-of-Lock: +0.8 VDC max (Lo)	3.915	-		
Phase Lock Voltage Monitor				
Electrical tuning monitor pin supplied				
CRYSTAL				
Туре				
100 MHz SC-cut (x5)	2.000	-0		
OTHER				
Label				
Use conventional label with the				
following information:		Threa 6 plac	ded Inserts, #2-56, xes, 0.190" deep	
501-28195 (Current Rev.)	0.085			
100M/500M GMXO-PLM	0		ų	ę.
+15 VDC		0 - 085 -		נ
Serial # - Date Code		0 0	-2.47	
(Mark connectors with function)	0			
Test Data			8	
	0.75		10	2
Output Level			0~	0
Phase Noise (free-running)				
Temperature Stability (free-running)			Nenzel /	Assoc
Harmonics, Subs, Products, Spurious				Austin, Tex
Power – Warm-up and Total	Title:			
	1	-	100 MHz 8	& 500 I
	1	Multipli	ed Crysta	al Osci
	P/N:	-	Rev:	Date:
	50	1-28195	-	06-23
	Tolerances	:	0.XX Dec:	0.XXX De
	(except as Dimensions	noted) s are in inches	±0.030"	±0.0

