I	NPUT
F	Frequency
	10 MHz
ı	_evel
_	+7 dBm ±6 dB into 50 ohms
(	DUTPUT
	requency
_	160 MHz
ı	_evel
_	+13 dBm ±2 dB into 50 ohms
9	STABILITY
	Aging (free-running)
•	1 x 10 <sup>-6</sup> first year
	after 30 days operating, typical
	5 x 10 <sup>-7</sup> second year, typical
	3 x 10 <sup>-7</sup> per year thereafter, typical
	Output Phase Noise L(f)
(	Free-Running)
	10 Hz -102 dBc/Hz
	10 Hz -102 dBc/Hz 100 Hz -132 dBc/Hz
	1 KHz -158 dBc/Hz
	10 KHz -173 dBc/Hz
	100 KHz -175 dBc/Hz
٦	Геmperature Stability
	±5 x 10 <sup>-7</sup> free-running from 0 to +50°C
	(Ref. +25°C)
ŀ	Harmonics
	≤ -25 dBc
5	Sub-Harmonics
	≤ -60 dBc
F	PLL Divider Products
	≤ -60 dBc
5	Spurious
	≤ -80 dBc, excluding power
	supply line related spurs
ľ	MECHANICAL
[	Dimensions
	4.45 x 4 x 1"
(	Connectors
	RF Outputs: SMA(f)
	Power, ET: Feed Thru Terminals
	GND: Ground Turret
F	Packaging
	Nickel-plated machined
	aluminum housing – G1P

# Mounting

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

# **POWER REQUIREMENTS**

Warm-Up Power

≤ 13.5 Watts for 5 minutes

#### **Total Power**

≤ 9.5 Watts at +25°C

# **Supply Voltage**

+15 VDC ±5%

## **ADJUSTMENT**

#### Loop BW

Target Bandwidth: < 30 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)

## **Phase Lock Voltage Monitor**

Electrical tuning monitor pin supplied

### **CRYSTAL**

## Type

80 MHz SC-cut (x2)

#### Label

Use conventional label with the following information: 501-31717 (Current Rev.)

160 MHz GMXO-PLD

+15 VDC

Serial # - Date Code

(Mark connectors with function)

#### **Test Data**

**Output Level** 

Phase Noise (free-running)

Temperature Stability (free-running)
Harmonics, Subs, Products, Spurious

Power – Warm-up and Total

REV	DATE	REVISION RECORD	DWN	AUTH
-	05-23-18	Initial Release	BH	MG
Α	06-01-18	Improved L(close-in), Power and LBW; reduced output level to +13 dBm	СВ	MG

G1P MXO Connections				
Connector	Function			
1 2 4 5 6 7	Supply Voltage Ground, Case RF Output B Phase Lock Voltage Phase Lock Alarm External Reference Input			





