OUTPUT
Frequency
2.4 GHz
Level
+13 dBm ±2 dB into 50 ohms
STABILITY
Aging
1 x 10 <sup>-6</sup> first year
after 30 days operating, typical
5 x 10 <sup>-7</sup> second year, typical
5 x 10 second year, typical
3 x 10 <sup>-7</sup> per year thereafter, typical
Phase Noise L(f), dBc/Hz
10 Hz -75 dBc/Hz
100 Hz -106 dBc/Hz
1 kHz -131 dBc/Hz
10 kHz -152 dBc/Hz
100 kHz -154 dBc/Hz
1 MHz -154 dBc/Hz
10 MHz -154 dBc/Hz
Temperature Stability
±5 x 10 <sup>-7</sup> , 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
5.16 x 4 x 1"
Connectors
SMA(f) and solder pins
Packaging
Nickel-plated machined
aluminum housing – G3
Mounting
Threaded inserts on base,
#2-56, 6 places
POWER REQUIREMENTS
Warm-Up Power
≤ 19.5 Watts for 5 minutes
Total Power
≤ 15.5 Watts at +25°C
Supply Voltage
+15 VDC ±5%

ADJUSTMENT Mechanical Tuning ±4 x 10 <sup>-6</sup>
Electrical Tuning
±5 x 10 <sup>-7</sup> , ±5 VDC
Negative slope
CRYSTAL
Туре
100 MHz SC-cut (x24)
Label
Use conventional label with the
following information:
501-31148 (Current Rev.)
2.4 GHz 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
Tuning – MT and ET

REV	DATE	REVISION RECORD	DWN	AUTH
-	08-30-17	Initial Release	CB	

G3 Connections		
Connector	Function	
1	Supply Voltage	
2	Ground, Case	
3	Electrical Tuning	
4	RF Output	

Frequency Adjust Access (Mechanical Tuning)

1.00 —



