OUTPUT
Frequency
2 GHz
Level
+13 dBm ±2 dB into 50 ohms
STABILITY
Aging
1 x 10 ⁻⁶ first year
after 30 days operating, typical
5 x 10 ⁻⁷ second year, typical
3 x 10 ⁻⁷ per year thereafter, typical
Phase Noise L(f), typical
100 Hz -102 dBc/Hz
1 KHz -129 dBc/Hz
10 KHz -146 dBc/Hz
100 KHz -147 dBc/Hz
Temperature Stability
±5 x 10 ⁻⁷ , 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
3.21 x 4 x 1"
Connectors
SMA(f) and solder pins
Packaging
Nickel-plated machined
aluminum housing – J2
Mounting
Threaded inserts on base,
#2-56, 6 places
POWER REQUIREMENTS
Warm-Up Power
≤ 12.0 Watts for 5 minutes
Total Power
≤ 8.5 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

100 MHz SC-cut (x20)

OTHER Label

Use conventional label with the following information: 501-23355 (Current Rev.) 2 GHz MXO-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
-	12-14-10	Initial Release	PAC	JR
Α	01-17-12	Phase Noise; Power; MT	PAC	

J2 MXO Connections		
Connector	Function	
1	Supply Voltage	
2	Ground, Case	
3	Electrical Tuning	
4	RF Output	



