OUTDUT				
OUTPUT				
Frequency				
12 GHz				
Level				
+13 dBm ±2 dB into 50 ohms STABILITY				
Aging (free-running)				
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				
Phase Noise I (f) typical				
100 Hz -85 dBc/Hz				
1 KHz -111 dBc/Hz				
10 KHz -126 dBc/Hz				
100 KHz -127 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				
4.16 x 4.00 x 1"				
Connectors				
SMA(f)'s and solder pins on side				
Packaging				
Nickel-plated machined				
aluminum housing – J3				
Mounting				
Threaded inserts on base,				
#2-56, 6 places				
POWER REQUIREMENTS				
Warm-Up Power				
≤ 17 Watts for 5 minutes				
Total Power				
≤ 14 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** Type 100 MHz SC-cut (x120) **OTHER** Label Use conventional label with the following information: 501-24244 (Current Rev.) 12 GHz MXO-FR +15 VDC Serial # - Date Code (Mark connectors with function) **Test Data** Output Level Phase Noise - free-running Temperature Stability - free-running Harmonics, Subs, Spurious Power – Warm-up and Total Tuning - MT and ET

REV	DATE	REVISION RECORD	DWN	AUTH
-	07-13-11	Initial Release	PAC	JR
Α	04-30-12	Phase Noise Floor	PAC	

J3 MXO Connections			
Connector	Function		
1	Supply Voltage		
2	Ground, Case		
3	Electrical Tuning		
4	RF Output		



