OUTPUT
Frequency
10.24 GHz
Level
+13 dBm ±2 dB into 50 ohms
STABILITY
Aging (free-running)
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 -87 dBc/Hz
100 Hz -87 dBc/Hz 1 KHz -112 dBc/Hz
10 KHz -112 dBc/Hz
100 KHz -130 dBc/Hz
Temperature Stability
remperature 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
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
≤ 13.5 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

80 MHz SC-cut (x128)

OTHER Label

Use conventional label with the following information: 501-25412 (Current Rev.) 10.24 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
-	01-26-12	Initial Release	PAC	

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



