OUTPUT
Frequency
9 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
2 × 10 ⁻⁷ represent the result of the result of
3 x 10 ⁻⁷ per year thereafter, typical
Phase Noise L(f), typical
100 Hz -82 dBc/Hz
1 KHz -110 dBc/Hz
10 KHz -130 dBc/Hz
100 KHz -131 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
4.16 x 4 x 1"
Connectors
SMA(f) and solder pins
Packaging
Nickel-plated machined
aluminum housing – J3
Mounting
Threaded inserts on base,
#2-56, 6 places
POWER REQUIREMENTS
W II B
Warm-Up Power
≤ 15 Watts for 5 minutes
Total Power
≤ 12.0 Watts at +25°C
Supply Voltage
+15 VDC ±5%

ADJUSTMENT Mechanical Tuning ±4 x 10 ⁻⁶
Electrical Tuning
±5 x 10 ⁻⁷ , ±5 VDC
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Negative slope
CRYSTAL
Type
90 MHz SC-cut (x100)
OTHER
Label
Use conventional label with the
following information:
501-25410 (Current Rev.) 9 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
S

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			



