OUTPUT
Frequency
10 MHz
Level
+10 dBm ±3 dB into 50 ohms
STABILITY
Aging
±5 x 10 ⁻¹⁰ per day after 30 days
operating, typical
±5 x 10 ⁻⁸ per year after 180 days
operating, typical
Phase Noise L(f) Static
-01, -02, -03, -04
10 Hz -125 dBc/Hz
100 Hz -150 dBc/Hz
1 kHz -160 dBc/Hz
10 kHz -165 dBc/Hz 100 kHz -165 dBc/Hz
Temperature
±5 x 10 ⁻⁸ , -20 ℃ to +70 ℃ (Ref +25 ℃)
±2 x 10 ′, -40 ℃ to +85 ℃ (Ref +25 ℃)
MECHANICAL
Dimensions 5.55"
≤ 1.03" x 1.03" x 0.515"
Connectors Solder pins on base
Packaging
Solder sealed steel can
POWER REQUIREMENTS
Warm-Up Power
<4W for 3 min
Total Power
< 1.5W at +25 ℃ steady state,
typical
Supply Voltage
+12 VDC, ±5%
ADJUSTMENT
Electrical Tuning
±1 x 10 ⁻⁶ , 0 - 10 VDC
Positive slope

CRYSTAL	
Туре	
10 MHz SC-cut	
CRYSTAL	

Type

SC-cut, low-g:

- -01 3e-10/g typical
- -02 3e-10/g per axis, guaranteed
- -03 2e-10/g per axis, guaranteed
- -04 1e-10/g per axis, guaranteed

ENVIRONMENTAL

Temperature-Altitude

40,000 feet at -40 °C, operating

Storage

-54° to +85°C

Vibration, typical

10 to 1000 Hz, 0.06 g² /Hz 1000 Hz to 2000 Hz, -6dB/Octave 10 gs RMS

Shock

12 gs for 11 msec, three axes Secure when mounting using MIL-Grade epoxy

Humidity

95 to 100 percent relative humidity, $+28^{\circ}$ to $+85^{\circ}$ C

TEST DATA

Output Level at +25 °C
Static and Dynamic Phase Noise
Temperature Stability
Power – Warm-up and Total at +25 °C

- **-01** Phase Noise under vibration at 0.06 g² /Hz at 100 Hz, one axis
- **-02** Phase Noise under vibration data, 0.06 g² /Hz at 100 Hz, three axes
- -03 Phase Noise under vibration data, 0.06 g² /Hz at 100 Hz, three axes
- **-04** Phase Noise under vibration data, 0.06 g² /Hz at 100 Hz, three axes

REV	DATE	REVISION RECORD	DWN	AUTH
-	03-28-13	Initial Release	Liz	
Α	09-30-13	Added -04	Liz	
В	03-07-14	Static	Liz	



