OUTPUT
Frequency
10 MHz
Level
+10 dBm ±3 dB into 50 ohms
STABILITY
Aging
$\pm 5 \times 10^{-10}$ per day after 30 days
operating, typical
operating, typical
±5 x 10 ⁻⁸ per year after 180 days
operating, typical
Phase Noise L(f)
-01, -02, -03, -04
10 Hz -135 dBc/Hz
100 Hz -158 dBc/Hz
1 kHz -163 dBc/Hz
10 kHz -165 dBc/Hz
100 kHz -165 dBc/Hz
Temperature
±5 x 10 ⁻⁸ , -20°C to +70°C (Ref +25°C)
±2 x 10 ⁻⁷ , -40°C to +85°C (Ref +25°C)
MECHANICAL
Dimensions
≤ 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°C steady state,
typical
Supply Voltage
+12 VDC, ±5%
V-Ref Output
+8.9 VDC behind 20k Ohms
ADJUSTMENT
Electrical Tuning
±1 x 10 ⁻⁶ , 0 - 10 VDC
Positive slope
. 00 0 0.0p0

CRYSTAL
Type
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° to +85°C

TEST DATA

Output Level at +25°C Static 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
-	12-10-15	Draft	Liz	



