INIDIIT					
<u>I</u> NPUT					
Frequency					
10 MHz, ±1 x 10 ⁻⁷					
Level					
+7 dBm ±5 dB into 50 ohms					
OUTPUT					
Frequency					
160 MHz					
Level					
+10 dBm ±2 dB into 50 ohms					
STABILITY					
Output Phase Noise L(f)					
(Free-Running)					
100 Hz -120 dBc/Hz					
1 kHz -147 dBc/Hz					
10 kHz -162 dBc/Hz					
100 kHz -163 dBc/Hz					
Aging					
±1 x 10 ⁻⁶ per year after 30 days					
operating, typical					
Temperature Stability					
$\pm 5 \times 10^{-7}$ free-running from 0 to $\pm 50^{\circ}$ C,					
(Ref. +25°C)					
Phase Lock Alarm					
TTL					
Locked: +3.5 VDC to +5.2 VDC (Hi)					
Out-of-Lock: +0.8 VDC max (Lo)					
Phase Lock Voltage Monitor					
Voltage monitor pin supplied					
SPECTRAL PURITY					
Harmonics					
≤-30 dBc					
Sub-Harmonics and products of 100					
MHz					
≤-50 dBc					
PLL Divider Products					
≤-60 dBc					
Spurious					
≤-70 dBc					
MECHANICAL					
Dimensions					
2.5 x 3.5 x 0.8"					
Connectors					
SMA's and solder pins on side					
Feed-thru terminals for lock alarm,					
supply and phase lock voltage monitor					

Packaging

Mounting

Supply Voltage

Warm-Up Power

at +25° C

ADJUSTMENT Loop BW

Type 2 Loop

Output Level

Total Power

CRYSTAL Type

OTHER

Test Data

+15 VDC ±5%

Nickel-plated machined aluminum housing

Through holes, 4 places

POWER REQUIREMENTS

Tapped holes on sides, 16 places

Threaded inserts on base, 4 places

≤ 10 Watts at start-up for 5 minutes

≤ 7 Watts at steady state +25°C

Target Bandwidth: ≤ 5 Hz

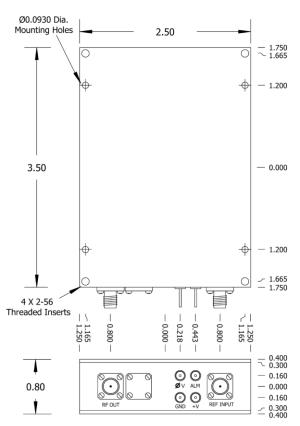
80 MHz SC-cut (w/x2 stage)

Phase Noise (free-running)

Temperature Stability (free-running)

Harmonics, PLL Products, Spurious

REV	DATE	REVISION RECORD	DWN	AUTH
-	10-08-12	Initial Release	Liz/PC	



Tapped Holes					
		- 1.490 - 1.250 - 1.010			
		— 0.000			
		- 1.010 - 1.250 - 1.490			
-0.240 -0.000 -0.240					
CONN	Function				
Ø V RF Out +V ALM GND REF INPUT	RF : Sur Lo	sse Lock Voltage Signal Out pply Voltage ck Alarm bund, Case erence Signal In			

16 X .060-80

