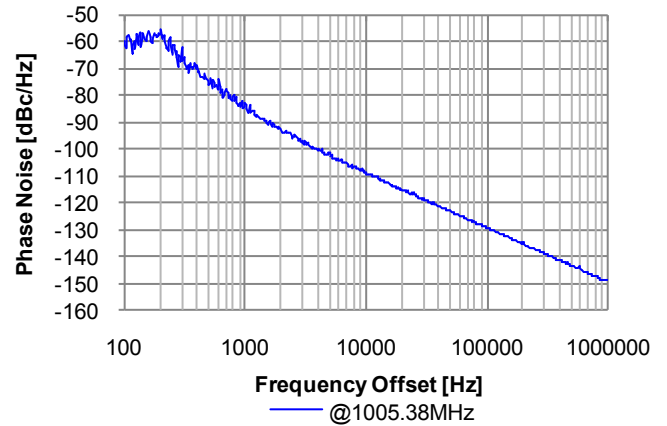


Features

- 3 wire serial integer PLL
- Small Size 0.55"x0.57"x0.13"
- Low phase noise
- Programming : ADF4118(ADI)

Applications

- SATCOM radio link
- Receiver
- Test Equipment
- Radar
- Point-to-Point radio
- MMDS
- WiMAX

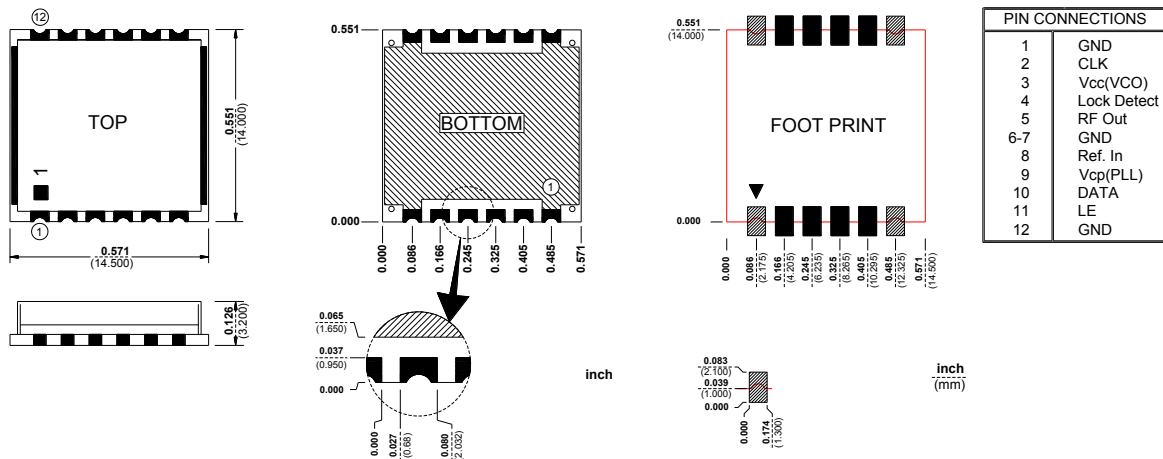


Electrical Characteristics

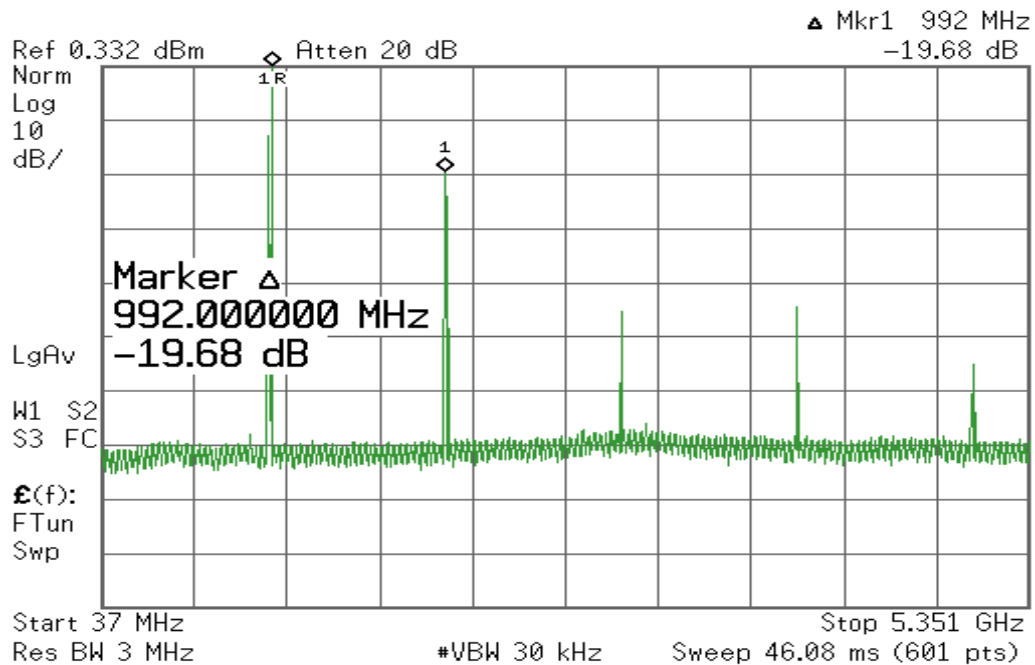


| Parameter | Units | Min | Typ | Max |
|-------------------------------|--------------------|---------|------|---------|
| Operating Frequency Range | MHz | 1000.38 | | 1010.38 |
| Step Size | kHz | | 12.5 | |
| Settling Time | msec | | 10 | 30 |
| Output Power | dBm | -2.0 | 0.0 | +2.0 |
| Output Impedance | Ω | | 50 | |
| Phase Noise | @1kHz offset | dBc/Hz | -83 | -78 |
| | @10kHz offset | dBc/Hz | -108 | -103 |
| | @100kHz offset | dBc/Hz | -129 | -124 |
| | @1MHz offset | dBc/Hz | -148 | -143 |
| 2nd Harmonic Suppression | dBc | | -19 | -15 |
| Sideband Spurious Suppression | dBc | | | -75 |
| Reference | Input Frequency | MHz | 5 | 100 |
| | Input Level | dBm | -5 | +5 |
| VCO Power Supply (Vcc) | Voltage | Vdc | 5 | |
| | Current | mA | 20 | 30 |
| PLL Power Supply (Vcp) | Voltage | Vdc | 5 | |
| | Current | mA | 5 | 10 |
| Operating Temp. Range | $^{\circ}\text{C}$ | -40 | | +85 |

Dimensions



Harmonic Suppression



Sideband Spurious Suppression

