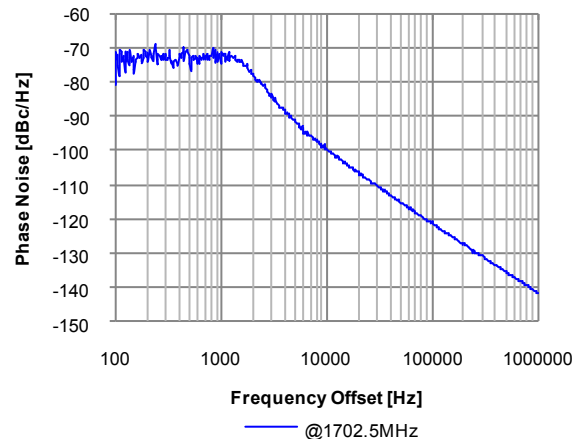


## Features

- 3 wire serial integer PLL
- Internal Reference(2.5ppm vs. Temp)
- Subminiature Size (0.5"x0.5"x0.12")
- Low phase noise
- Programming : ADF4113(ADI)

## Applications

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

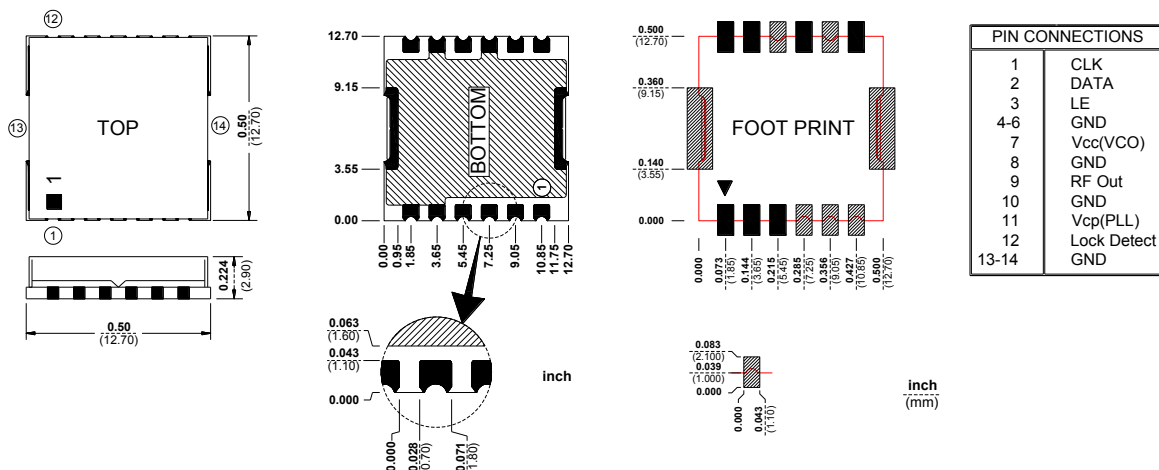


## Electrical Characteristics



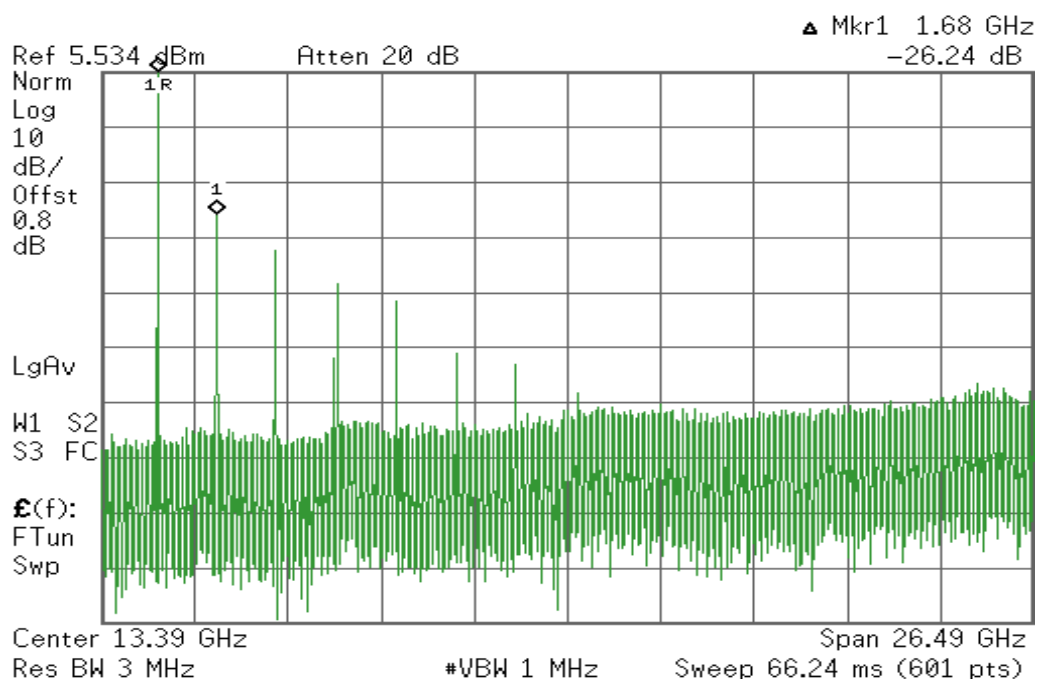
| Parameter                     | Units              | Min    | Typ  | Max  |
|-------------------------------|--------------------|--------|------|------|
| Operating Frequency Range     | MHz                | 1665   |      | 1740 |
| Step Size                     | kHz                |        | 100  |      |
| Settling Time                 | msec               |        | 10   | 30   |
| Output Power                  | dBm                | +4.0   | +6.0 | +8.0 |
| Output Impedance              | $\Omega$           |        | 50   |      |
| Phase Noise                   | @1kHz offset       | dBc/Hz | -73  | -68  |
|                               | @10kHz offset      | dBc/Hz | -99  | -94  |
|                               | @100kHz offset     | dBc/Hz | -122 | -117 |
|                               | @1MHz offset       | dBc/Hz | -142 | -137 |
| 2nd Harmonic Suppression      | dBc                |        | -26  | -20  |
| Sideband Spurious Suppression | dBc                |        |      | -70  |
| Reference                     | Frequency          | MHz    | 13   |      |
|                               | Freq. Stability    | ppm    |      | 2.5  |
| VCO Power Supply (Vcc)        | Voltage            | Vdc    | 5    |      |
|                               | Current            | mA     | 25   | 35   |
| PLL Power Supply (Vcp)        | Voltage            | Vdc    | 5    |      |
|                               | Current            | mA     | 5    | 10   |
| Operating Temp. Range         | $^{\circ}\text{C}$ | -40    |      | +85  |

## Dimensions



PACKAGE DRAWING : PG12-L

## Harmonic Suppression



## Sideband Spurious Suppression

