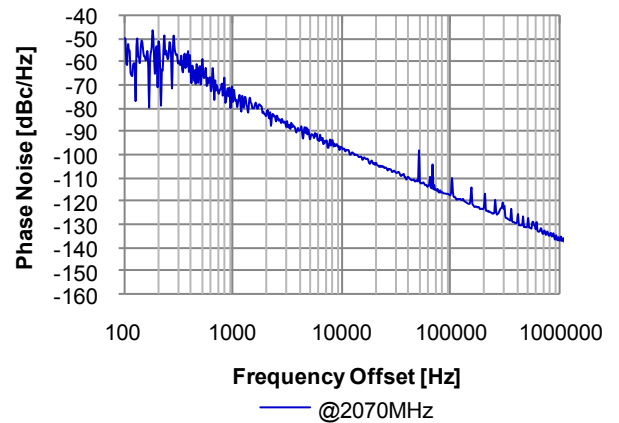


## Features

- 3 wire serial integer PLL
- Miniature size (0.37"x0.39"x0.09")
- Low phase noise
- Programming : LMX2331(NSC)

## Applications

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

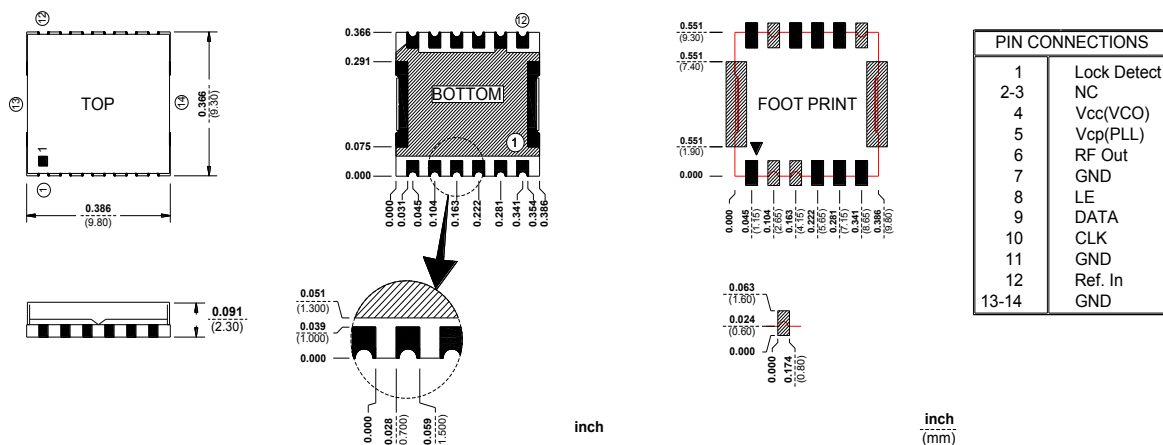


## Electrical Characteristics



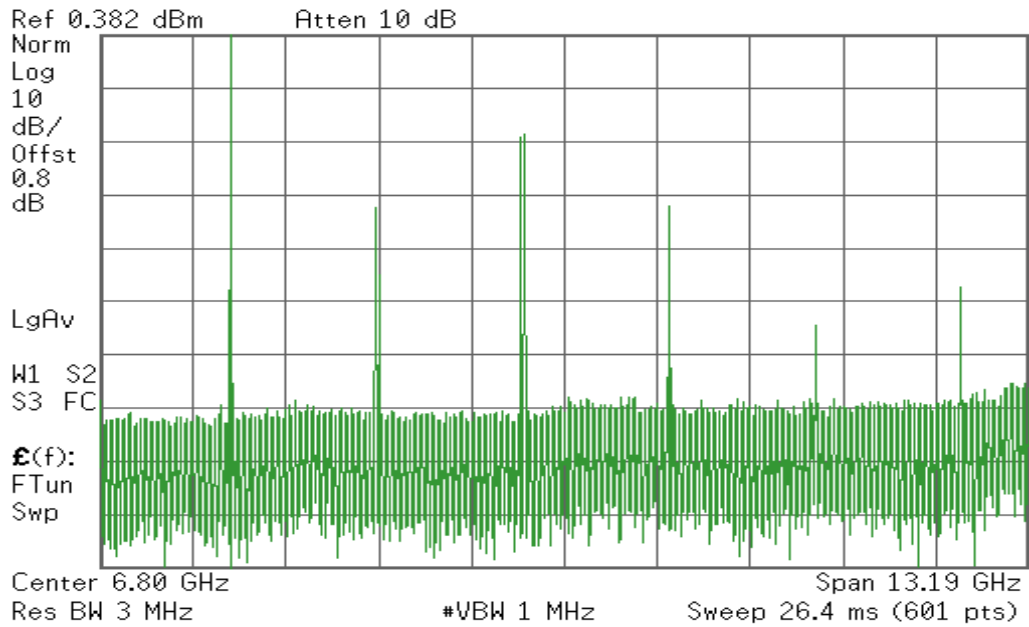
| Parameter                     | Units              | Min    | Typ  | Max  |
|-------------------------------|--------------------|--------|------|------|
| Operating Frequency Range     | MHz                | 2065   |      | 2075 |
| Step Size                     | kHz                |        | 50   |      |
| Settling Time                 | msec               |        | 10   | 30   |
| Output Power                  | dBm                | -2.0   | 0.0  | +2.0 |
| Output Impedance              | $\Omega$           |        | 50   |      |
| Phase Noise                   | @1kHz offset       | dBc/Hz | -73  | -68  |
|                               | @10kHz offset      | dBc/Hz | -98  | -93  |
|                               | @100kHz offset     | dBc/Hz | -117 | -112 |
|                               | @1MHz offset       | dBc/Hz | -135 | -130 |
| 2nd Harmonic Suppression      | dBc                |        | -32  | -20  |
| Sideband Spurious Suppression | dBc                |        |      | -60  |
| Reference                     | Input Frequency    | MHz    | 5    | 40   |
|                               | 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



PACKAGE DRAWING : PC12-L

## Harmonic Suppression



## Sideband Spurious Suppression

