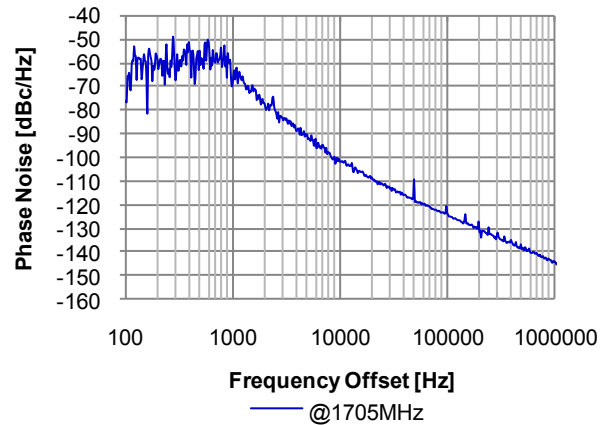


## Features

- 3 wire serial Fractional PLL
- Sub-Compact Size 0.6"x0.6"x0.15"
- Low phase noise
- Programming : LMX2326(NSC)

## Applications

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

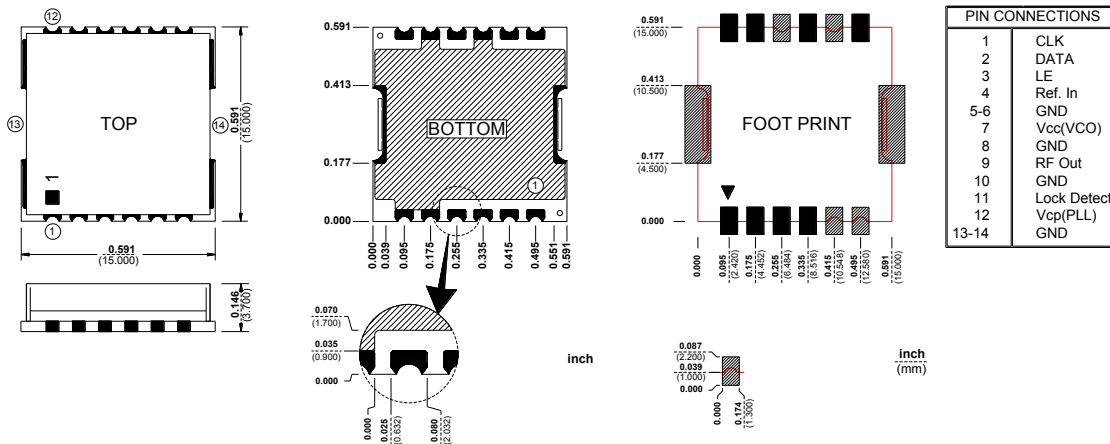


## Electrical Characteristics



| Parameter                     | Units              | Min    | Typ  | Max  |
|-------------------------------|--------------------|--------|------|------|
| Operating Frequency Range     | MHz                | 1690   |      | 1720 |
| Step Size                     | kHz                |        | 50   |      |
| Settling Time                 | msec               |        | 10   | 30   |
| Output Power                  | dBm                | +2.0   | +4.0 | +6.0 |
| Output Impedance              | $\Omega$           |        | 50   |      |
| Phase Noise                   | @1kHz offset       | dBc/Hz | -65  | -60  |
|                               | @10kHz offset      | dBc/Hz | -102 | -97  |
|                               | @100kHz offset     | dBc/Hz | -122 | -117 |
|                               | @1MHz offset       | dBc/Hz | -143 | -138 |
| 2nd Harmonic Suppression      | dBc                |        | -23  | -15  |
| Sideband Spurious Suppression | dBc                |        |      | -70  |
| 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  |

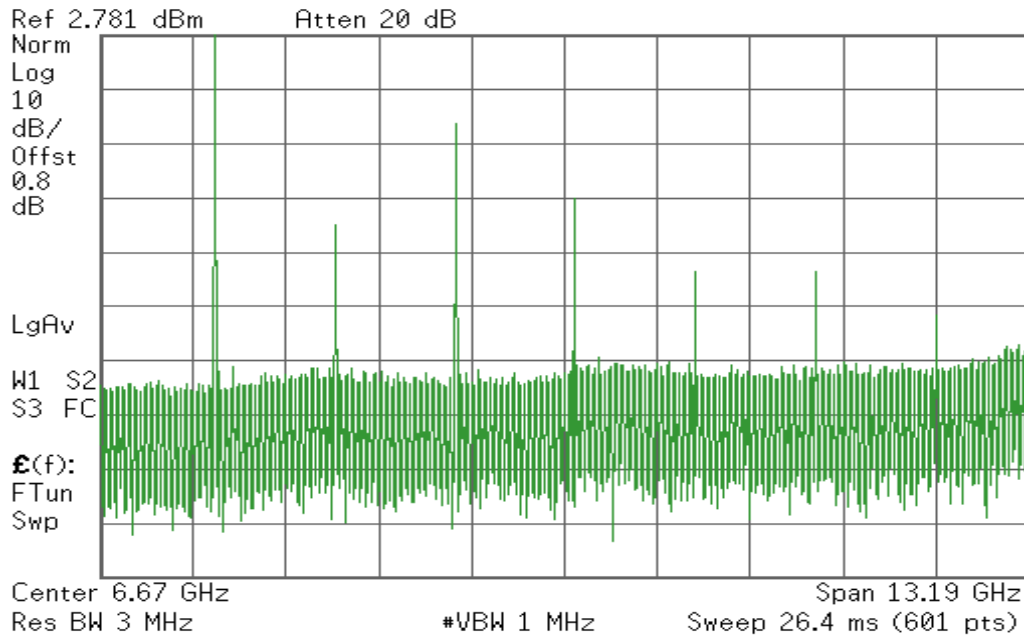
## Dimensions



PACKAGE DRAWING : PS12-L

| PIN CONNECTIONS |             |
|-----------------|-------------|
| 1               | CLK         |
| 2               | DATA        |
| 3               | LE          |
| 4               | Ref. In     |
| 5-6             | GND         |
| 7               | Vcc(VCO)    |
| 8               | GND         |
| 9               | RF Out      |
| 10              | GND         |
| 11              | Lock Detect |
| 12              | Vcp(PLL)    |
| 13-14           | GND         |

## Harmonic Suppression



## Sideband Spurious Suppression

