



### Features and Benefits

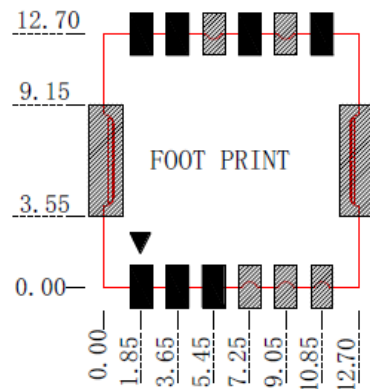
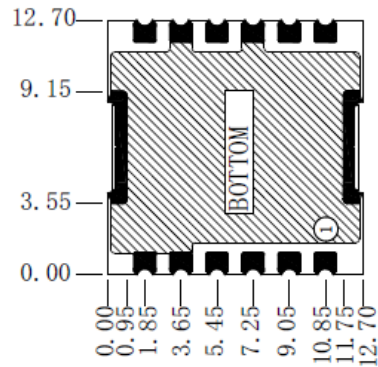
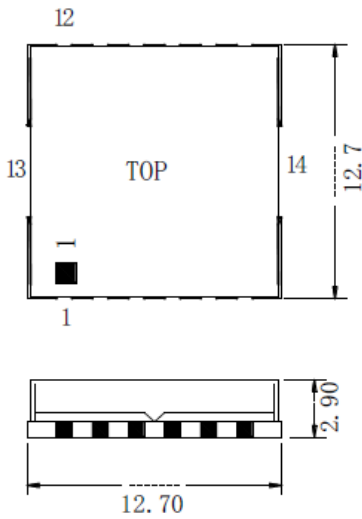
Frequency Range: 1840-1880MHz  
Supply Voltage: 5.0V  
Current: 30mA Max.  
3 wire serial integer PLL  
Output power: +9.0dBm Max.  
Phase noise: -101dBc/Hz@10KHz  
Operating temperature: -40°C--+85°C  
Size: 12.7x12.7x2.9mm  
Package type: SMD

### Typical Applications

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

### Mechanical Drawing & Pin Connections

Drawing No: MD240075-1



Pin Connections:

| Pin   | Function    |
|-------|-------------|
| 1     | CLK         |
| 2     | DATA        |
| 3     | LE          |
| 4-6   | GND         |
| 7     | VCC(VCO)    |
| 8     | GND         |
| 9     | RF Out      |
| 10    | GND         |
| 11    | Lock Detect |
| 12    | Vcp(PLL)    |
| 13&14 | GND         |

Unit in mm

1mm = 0.0394 inches



## Specifications

| Parameter                      | Units              | Min. | Typical | Max. |
|--------------------------------|--------------------|------|---------|------|
| Operating Frequency Range      | MHz                | 1840 |         | 1880 |
| Output Power                   | dBm                | +5.0 | +7.0    | +9.0 |
| Step Size                      | KHz                |      | 50      |      |
| Settling Time                  | msec               |      | 10      | 30   |
| Output Impedance               | $\Omega$           |      | 50      |      |
| Phase Noise @1kHz offset       | dBc / Hz           |      | -73     | -68  |
| Phase Noise @10kHz offset      | dBc / Hz           |      | -101    | -96  |
| Phase Noise @100kHz offset     | dBc / Hz           |      | -123    | -118 |
| Phase Noise @1MHz offset       | dBc / Hz           |      | -143    | -138 |
| 2nd Harmonic Suppression       | dBc                |      | -29     | -20  |
| Sideband Spurious Suppression  | dBc                |      |         | -75  |
| Reference (frequency)          | MHz                |      | 13      |      |
| Reference (Freq. Stability)    | ppm                |      |         | 2.5  |
| VCO Power Supply (Vcc) Voltage | Vdc                |      | 5       |      |
| VCO Power Supply (Vcc) Current | mA                 |      | 22      | 30   |
| PLL Power Supply (Vcp) Voltage | Vdc                |      | 5       |      |
| PLL Power Supply (Vcp) Current | mA                 |      | 5       | 10   |
| Operating Temperature Range    | $^{\circ}\text{C}$ | -40  |         | +85  |