



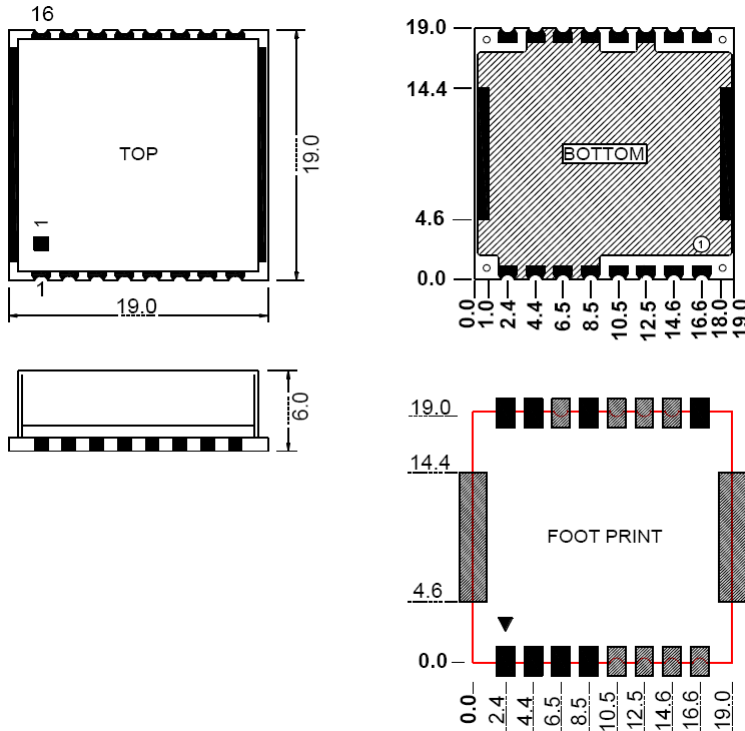
Features and Benefits

- Frequency Range: 2132-2232MHz
- Supply Voltage: 5.0V
- Current: 40mA Max.
- 3 wire serial Fractional PLL
- Output power: +3.0dBm Max.
- Phase noise: -102dBc/Hz@10KHz
- Operating temperature: -40°C--+85°C
- Size: 19.0x19.0x6mm
- Package type: SMD

Typical Applications

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

Mechanical Drawing & Pin Connections



Drawing No: MD240074-1

Pin Connections:

| Pin | Function |
|-------|-------------|
| 1 | CLK |
| 2 | DATA |
| 3 | LE |
| 4 | Ref. IN |
| 5-8 | GND |
| 9 | VCC(VCO) |
| 10-12 | GND |
| 13 | RF Out |
| 14 | GND |
| 15 | Vcp(PLL) |
| 16 | Lock Detect |
| 17&18 | GND |

Unit in mm
1mm = 0.0394 inches



Specifications

| Parameter | Units | Min. | Typical | Max. |
|--------------------------------|--------------------|------|---------|------|
| Operating Frequency Range | MHz | 2132 | | 2232 |
| Output Power | dBm | -1.0 | +1.0 | +3.0 |
| Step Size | KHz | | 125 | |
| Settling Time | msec | | 10 | 30 |
| Output Impedance | Ω | | 50 | |
| Phase Noise @1kHz offset | dBc / Hz | | -90 | -85 |
| Phase Noise @10kHz offset | dBc / Hz | | -102 | -97 |
| Phase Noise @100kHz offset | dBc / Hz | | -125 | -120 |
| Phase Noise @1MHz offset | dBc / Hz | | -145 | -140 |
| 2nd Harmonic Suppression | dBc | | -38 | -20 |
| Sideband Spurious Suppression | dBc | | | -75 |
| Reference (input frequency) | MHz | 10 | | 250 |
| Reference (input level) | dBm | -5 | | +5 |
| VCO Power Supply (Vcc) Voltage | Vdc | | 5 | |
| VCO Power Supply (Vcc) Current | mA | | 35 | 40 |
| PLL Power Supply (Vcp) Voltage | Vdc | | 5 | |
| PLL Power Supply (Vcp) Current | mA | | 10 | 15 |
| Operating Temperature Range | $^{\circ}\text{C}$ | -40 | | +85 |