

### Dynamic Engineers Inc.

2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA TEL: 1-281-870-8822 EMAIL: Sales@DynamicEng.com

#### **J7C%&%&6E!))A<n!%\$A<n!5** ÍÍËH€TP:ÁĴTÖÁXÔUÁ

#### **Features and Benefits**

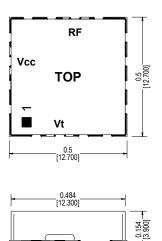
Frequency Range:55-130MHz Supply Voltage:12V Current: 50mA Max. Output power: +15.0dBm Max. Tuning Voltage: 0-20V Phase noise: -103dBc/Hz@10KHz Operating temperature: -40°C --+85°C Size:12.7x12.7x3.9mm

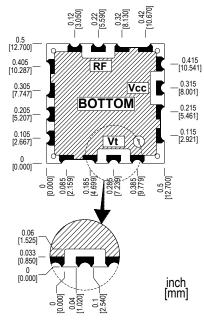
#### **Typical Applications**

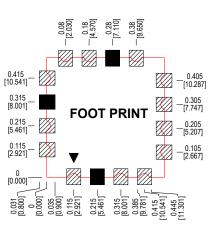
SATCOM Receiver Test Equipment Radar Point –to-Point Radio MMDS WiMax

#### **Mechanical Drawing & Pin Connections**

Drawing No: MD140084-2







| PIN CONNECTIONS |        |  |  |  |
|-----------------|--------|--|--|--|
| 2               | Vt     |  |  |  |
| 10              | RF Out |  |  |  |
| 14              | Vcc    |  |  |  |
| Others          | GND    |  |  |  |

Dynamic Engineers, Inc.

Rev. 1

Dynamic Engineers reserves the right to make changes to the company datasheet(s) along with other information contained inside; such as data tables and araphs without notification to potential customers who may have earlier revisions in their possession.



# Dynamic Engineers Inc.

2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA TEL: 1-281-870-8822 EMAIL: Sales@DynamicEng.com

## **Specifications**

| Parameter                       |         | Units    | Min. | Typical | Max.  |
|---------------------------------|---------|----------|------|---------|-------|
| Operating Frequency Range       |         | MHz      | 55   |         | 130   |
| Power Supply (Vcc)              | Voltage | Vdc      | 11.4 | 12      | 12.6  |
|                                 | Current | mA       |      |         | 50    |
| Output Power                    |         | dBm      | +9.0 | +12.0   | +15.0 |
| Output Impedance                |         | Ω        |      | 50      |       |
| Phase Noise @10kHz offset       |         | dBc / Hz |      | -103    | -97   |
| Tuning Voltage (Vt)             |         | V        | 0    |         | +20   |
| Tuning Voltage Sensitivity (Kv) |         | MHz / V  |      | 4-7     |       |
| 2nd Harmonic Suppression        |         | dBc      |      | -8      | -5    |
| Pushing Figure(11.4-12.6)       |         | MHz      |      | 2       | 5     |
| Pulling Figure(12dB RL)         |         | MHz      |      | 2       | 5     |
| Input Capacitance               |         | pF       |      | 27      |       |
| Operating Temperature Range     |         | Ċ        | -40  |         | +85   |