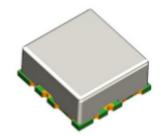


## Dynamic Engineers Inc.

Website: <u>www.DynamicEngineers.com</u> Email: <u>Inquiry@DynamicEngineers.com</u>

### **Features and Benefits**

Frequency Range:2740-2940MHz Supply Voltage:5V Current: 27mA Typ. Output power: +8dBm Typ. Tuning Voltage: 0.5-4.5V Phase noise: -100dBc/Hz@10KHz Operating temperature: -40°C--+85°C Size:12.7x12.7x3.9mm Package type: SMD **J7C%&%6E!&+(\$A < n!&- (\$A < n!5** 2740-2940MHz SMD VCO\_Voltage Controlled Oscillator

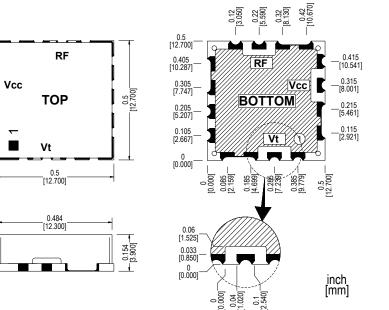


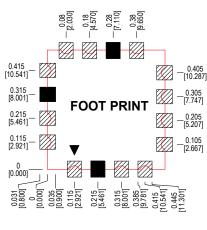
MD140084-2

### **Typical Applications**

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

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





Drawing No:

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

Dynamic Engineers, Inc.

Rev. 1

3

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.



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# **Specifications**

| Para                             | ameter     | Units    | Min. | Typical | Max. |
|----------------------------------|------------|----------|------|---------|------|
| Operating Frequency F            | Range      | MHz      | 2740 |         | 2940 |
| Power Supply (Vcc)               | Voltage    | Vdc      |      | +5      |      |
|                                  | Current    | mA       |      | 27      |      |
| Output Power                     |            | dBm      |      | +8      |      |
| Output Impedance                 |            | Ω        |      | 50      |      |
| Phase Noise @10kHz offset        |            | dBc / Hz |      | -100    |      |
| Phase Noise @100kHz offset       |            | dBc / Hz |      | -120    |      |
| Tuning Voltage (Vt)              |            | V        | 0.5  |         | 4.5  |
| Tuning Voltage Sensit            | ivity (Kv) | MHz / V  |      | 75      |      |
| 2 <sup>nd</sup> Harmonic Suppres | sion       | dBc      |      | -15     |      |
| Pushing Figure                   |            | MHz / V  |      | 1       |      |
| Pulling Figure                   |            | MHz      |      | 6       |      |
| Input Capacitance                |            | pF       |      | 20      |      |
| Operating Temperatur             | e Range    | °C       | -40  |         | +85  |