



Dynamic Engineers Inc.

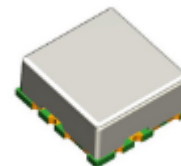
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10.7 MHz SMD VCO_Voltage Controlled Oscillator

Features and Benefits

Frequency Range: 300-345MHz
Supply Voltage: 5V
Current: 15mA Typ.
Output power: +3dBm 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

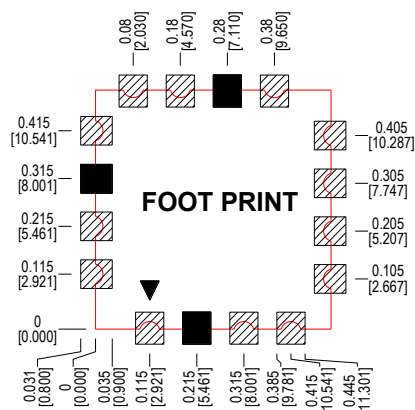
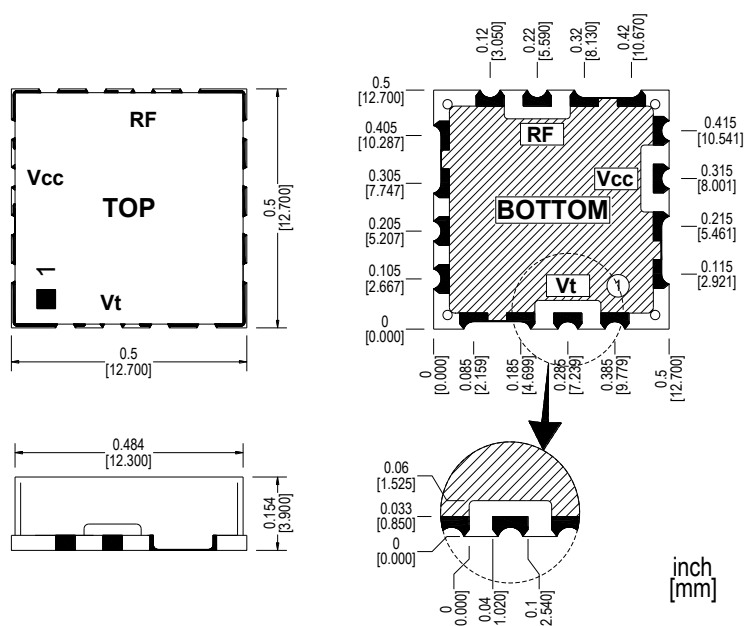


Typical Applications

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 |



Specifications

| Parameter | | Units | Min. | Typical | Max. |
|--------------------------------------|---------|----------|------|---------|------|
| Operating Frequency Range | | MHz | 300 | | 345 |
| Power Supply (Vcc) | Voltage | Vdc | | +5 | |
| | Current | mA | | 15 | |
| Output Power | | dBm | | +3 | |
| 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 Sensitivity (Kv) | | MHz / V | | 18 | |
| 2 nd Harmonic Suppression | | dBc | | -20 | |
| Pushing Figure | | MHz / V | | 1 | |
| Pulling Figure | | MHz | | 1 | |
| Input Capacitance | | pF | | 100 | |
| Operating Temperature Range | | °C | -40 | | +85 |