



Dynamic Engineers Inc.

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VCO1212BQ-1100MHz-1900MHz-A

1100-1900MHz SMD VCO

Features and Benefits

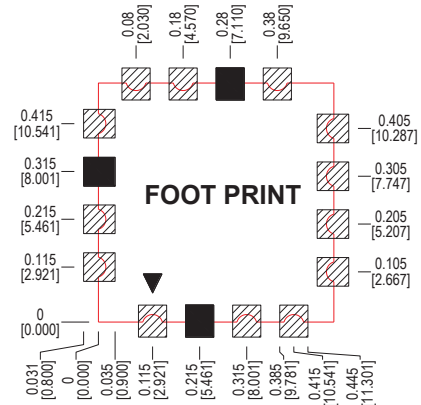
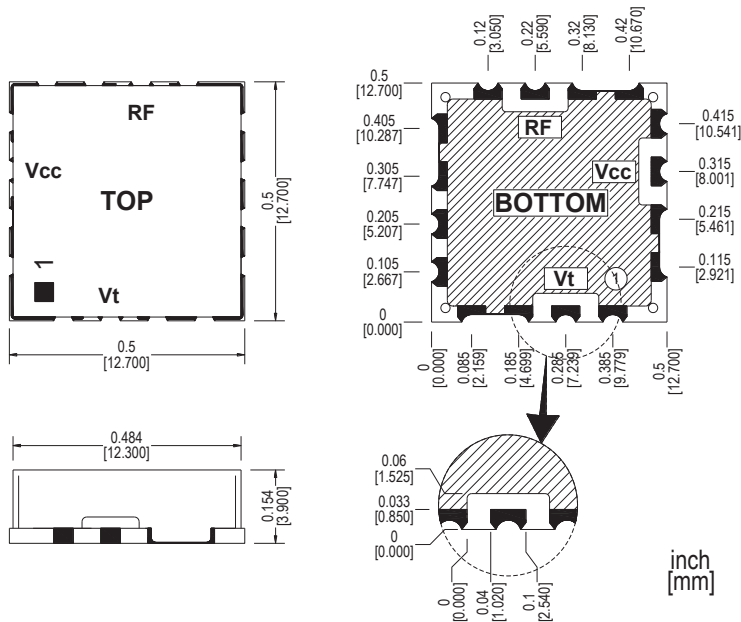
- Low phase noise
- Linear tuning characteristics
- Low pushing / Low pulling
- Aqueous washable

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 | 1100 | | 1900 |
| Power Supply (Vcc) | Voltage | Vdc | | 12 | |
| | Current | mA | | 30 | |
| Output Power | | dBm | +5 | | +14 |
| Output Impedance | | Ω | | 50 | |
| Phase Noise @10kHz offset | | dBc / Hz | | -97 | |
| Phase Noise @100kHz offset | | dBc / Hz | | -115 | |
| Tuning Voltage (Vt) | | V | +2 | | +17 |
| Tuning Voltage Sensitivity (Kv) | | MHz / V | | 65 | |
| 2nd Harmonic Suppression | | dBc | | -10 | |
| Pushing Figure | | MHz / V | | 2 | |
| Pulling Figure | | MHz | | 15 | |
| Input Capacitance | | pF | | 100 | |
| Operating Temperature Range | | $^{\circ}\text{C}$ | -40 | | +85 |