



Dynamic Engineers Inc.

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

VCO1212W-960-860-A

Surface Mount Voltage Controlled Oscillator (VCO)

Features and Benefits

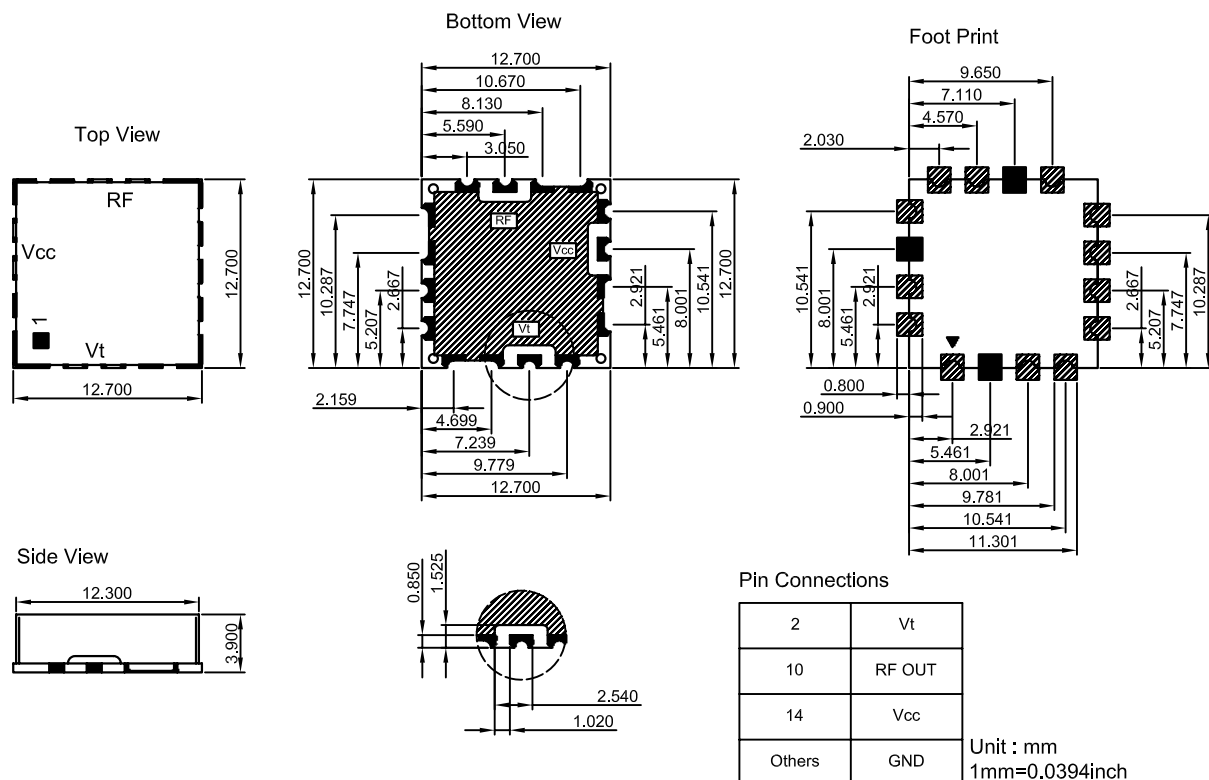
Low Phase Noise
Linear tuning characteristics
Low pushing / Low pulling
Aqueous washable

Typical Applications

SATCOM
Radio
Point-to-Point
Broadcast

Mechanical Drawing & Pin Connections

Drawing No:MD140084-1





Electrical Characteristics

| Parameter | Condition | Sym | Value | | | Unit |
|--------------------------------------|--------------------------------|-----|-------|---------|------|-----------|
| | | | Min. | Typ. | Max. | |
| Operating Frequency Range | | | 860 | | 960 | MHz |
| Output Power | | | 3.0 | 5.0 | | dBm |
| Output Impedance | | | | 50 | | Ω |
| Phase Noise | @10kHz offset | | | -99 | -94 | dBc/Hz |
| Tuning Voltage | | Vt | 1.0 | | 4.0 | Vdc |
| Tuning Voltage Sensitivity | | Kv | | 45 - 55 | | MHz/V |
| 2 nd Harmonic Suppression | | | | -22 | -15 | dBc |
| Power Supply | Voltage Current | Vcc | | 5 20 | 30 | Vdc mA |
| Pushing Figure | | | | 2 | | MHz/V |
| Pulling Figure | (10dB Return Loss, all phases) | | | 2 | | MHz |
| Input Capacitance | | | | 100 | | pF |
| Operating Temperature Range | | | -30 | | +80 | °C |