



## Dynamic Engineers Inc.

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**VCO1212W-4000-6000-A**

Surface Mount Voltage Controlled Oscillator

### Features and Benefits

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

### Typical Applications

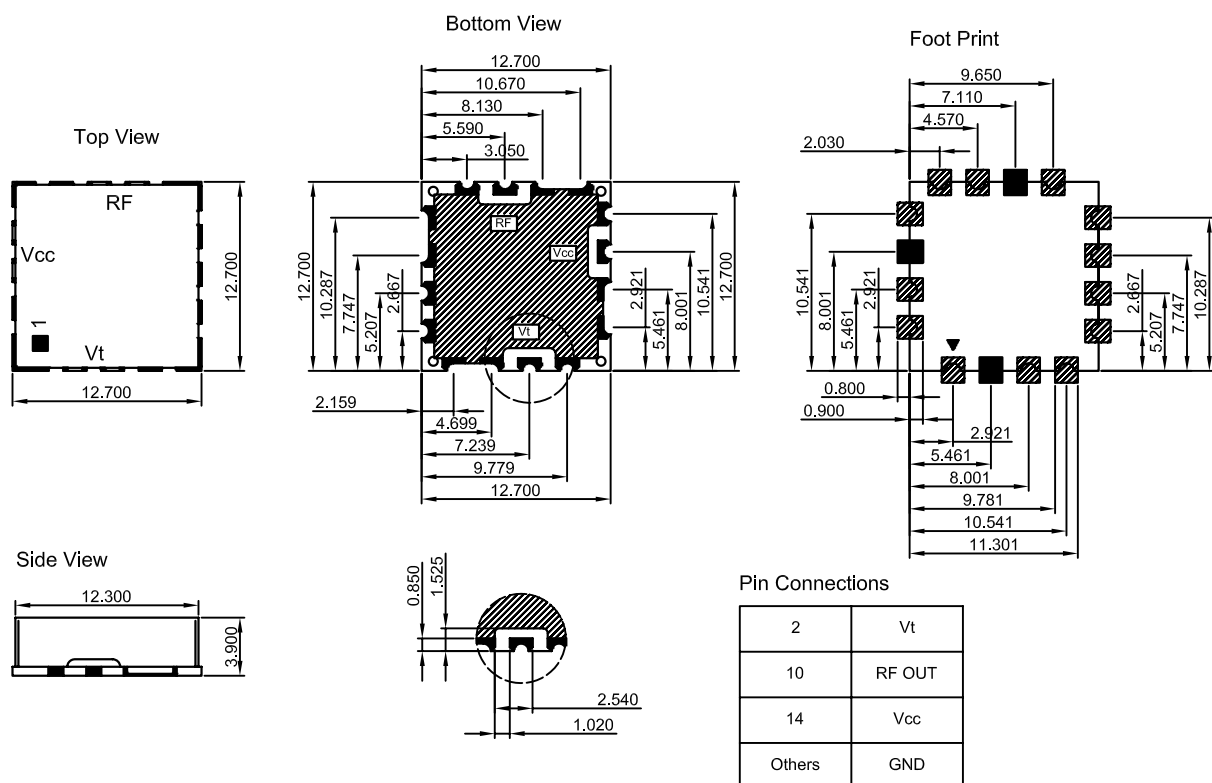
- SATCOM
- Point to point communication
- Test Equipment

### Description

Ultra-low Noise Surface Mount VCO

### Mechanical Drawing & Pin Connections

Drawing No: MD140084-1



Unit in mm  
1mm = 0.0394 inches



## Specifications

Parameter	Condition	Min.	Typical	Max.	Units
Operating Frequency Range		4000		6000	MHz
Power Supply (Vcc)	Voltage		5		V
	Current		40	60	mA
Output Power		-5.0		+6.0	dBm
Output Impedance			50		$\Omega$
Phase Noise(@5000MHz)	@10KHz		-73		dBc / Hz
	@100KHz		-100		
	@1MHz		-120		
Tuning Voltage (Vt)		0		16.0	V
Tuning Voltage Sensitivity (Kv)			200-350		MHz / V
2nd Harmonic Suppression			-12	-8	dBc
Pushing Figure			10	20	MHz / V
Pulling Figure			30	50	MHz
Input Capacitance			15		pF
Operating Temperature Range		-40		+85	$^{\circ}\text{C}$