



## Dynamic Engineers Inc.

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

**VCO1212W-2450-2750-A**

Service Mount Voltage Controlled Oscillator

### Features and Benefits

2450-2750 MHz approx. frequency range  
Low phase noise up to -85 dBc/Hz @ 10 KHz offset  
Low pushing / low pulling  
Linear tuning characteristics  
Aqueous washable

### Typical Applications

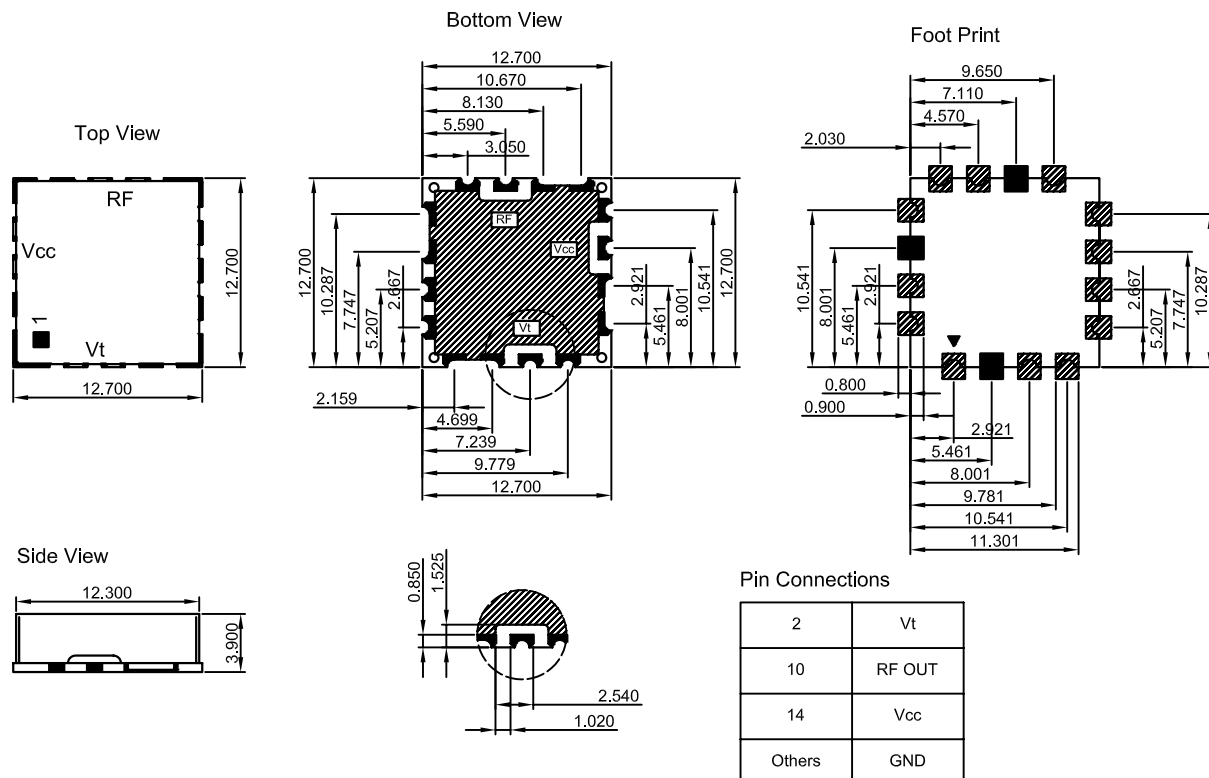
SATCOM  
Point to point communication  
Radio and broadcast

### Description

Ultra-low Noise Surface Mount VCO

### Mechanical Drawing & Pin Connections

Drawing No: MD140084-1



Unit in mm  
1mm = 0.0394 inches



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### Specifications

Parameter		Units	Min.	Typical	Max.
Operating Frequency Range		MHz	2450		2750
Power Supply (Vcc)	Voltage	V		5	
	Current	mA		25	30
Output Power		dBm	-3.0	0.0	
Output Impedance		$\Omega$		50	
Phase Noise @10kHz offset		dBc / Hz		-90	-85
Tuning Voltage (Vt)		V	0.5		4.5
Tuning Voltage Sensitivity (Kv)		MHz / V		110 - 120	
2nd Harmonic Suppression		dBc			-15
Pushing Figure		MHz / V		4	
Pulling Figure (10 dB Return Loss, all phases)		MHz		4	
Input Capacitance		pF		33	
Operating Temperature Range		$^{\circ}\text{C}$	-20		+85