



## Dynamic Engineers Inc.

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**VCO1212W-5500-5900-A**

Service Mount Voltage Controlled Oscillator

### Features and Benefits

5500-5900 MHz approx. frequency range  
Low phase noise up to -78 dBc/Hz @ 10 KHz offset  
Low pushing / low pulling  
Linear tuning characteristics  
Aqueous washable

### Typical Applications

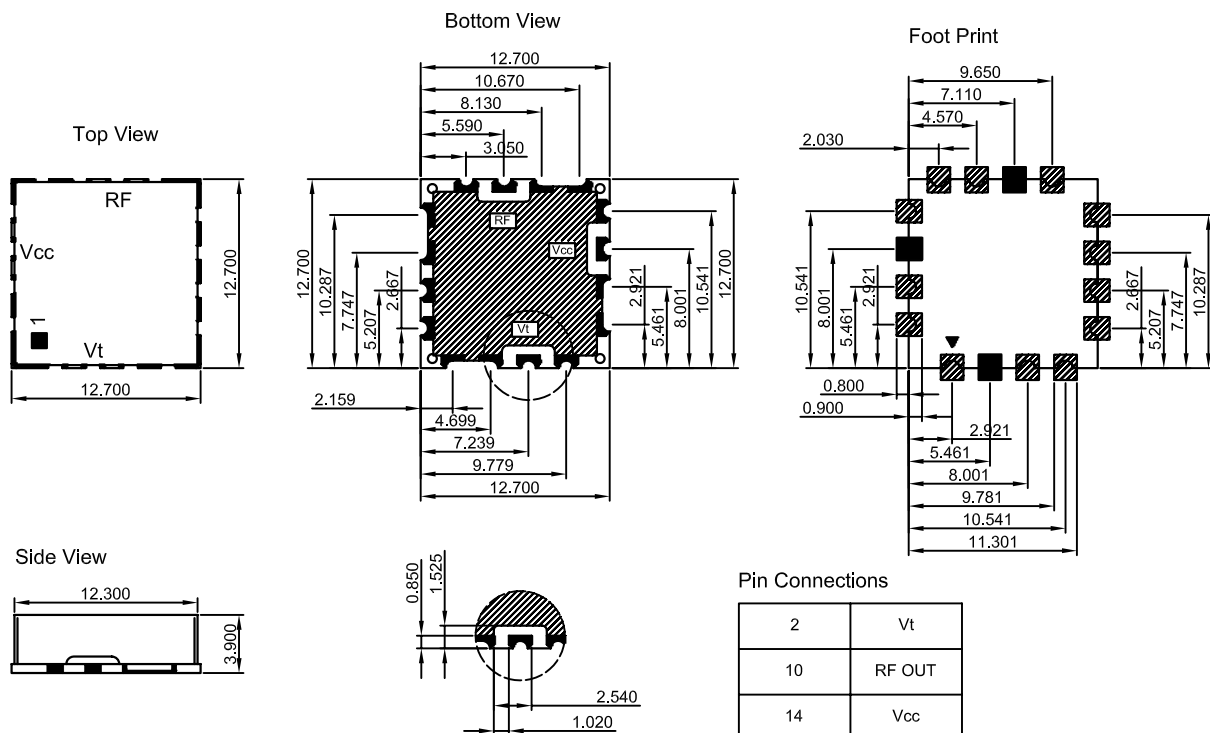
SATCOM  
Point to point communication  
Radio and broadcast

### Description

Ultra-low Noise Surface Mount VCO

### Mechanical Drawing & Pin Connections

Drawing No: MD140084-1



Unit in mm  
1mm = 0.0394 inches



## Specifications

Parameter		Units	Min.	Typical	Max.
Operating Frequency Range		MHz	5500		5900
Power Supply (Vcc)	Voltage	V		5	
	Current	mA		28	30
Output Power		dBm	-3.0	0.0	
Output Impedance		$\Omega$		50	
Phase Noise @10kHz offset		dBc / Hz		-83	-78
Tuning Voltage (Vt)		V	0.5		4.5
Tuning Voltage Sensitivity (Kv)		MHz / V		138 – 145	
2nd Harmonic Suppression		dBc			-10
Pushing Figure		MHz / V		4	
Pulling Figure (10 dB Return Loss, all phases)		MHz		4	
Input Capacitance		pF		22	
Operating Temperature Range		$^{\circ}\text{C}$	-20		+85