



## Dynamic Engineers Inc.

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

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Ultra-Low Noise Coaxial Resonator Oscillator

### Features and Benefits

2905-2955 MHz approx. frequency range  
+2 dBm Ultra-low noise output  
-110 dBc/Hz @ 10 KHz offset  
+15 MHz per volt sensitivity for max. loaded Q  
-40°C to +85°C operating temperature

### Typical Applications

Extreme Narrow Band Microwave LO

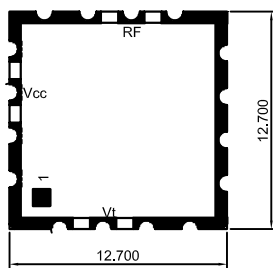
### Description

Ultra-low Noise Coaxial Resonator Oscillator Technology (CRO)

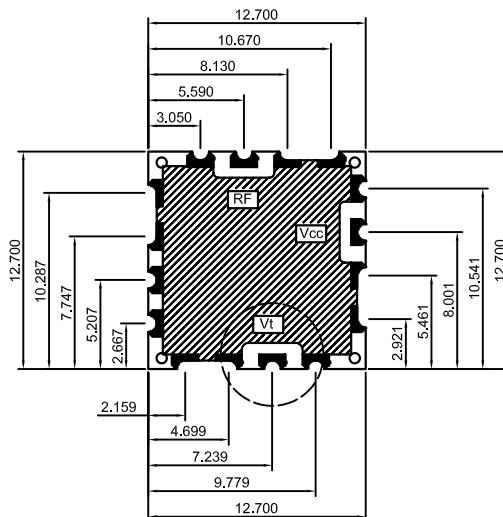
### Mechanical Drawing & Pin Connections

Drawing No: MD1(\$\$, (-'

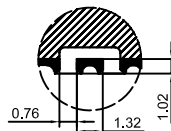
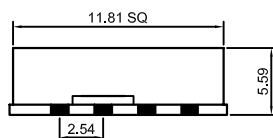
Top View



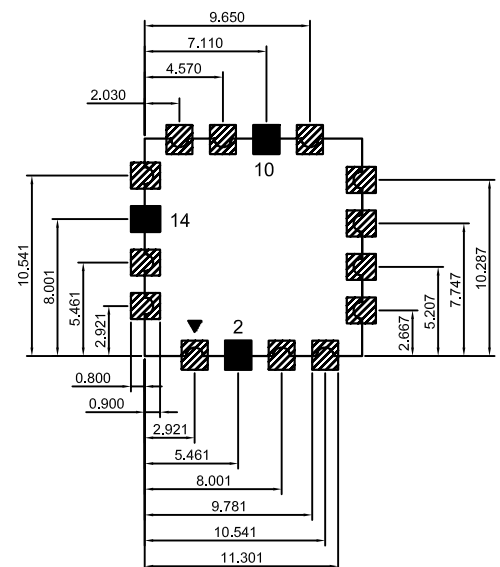
Bottom View



Side View



Foot Print



Pin Connections

2	Vt
10	RFOUT
14	Vcc
Others	GND

Unit in mm  
1mm = 0.0394 inches



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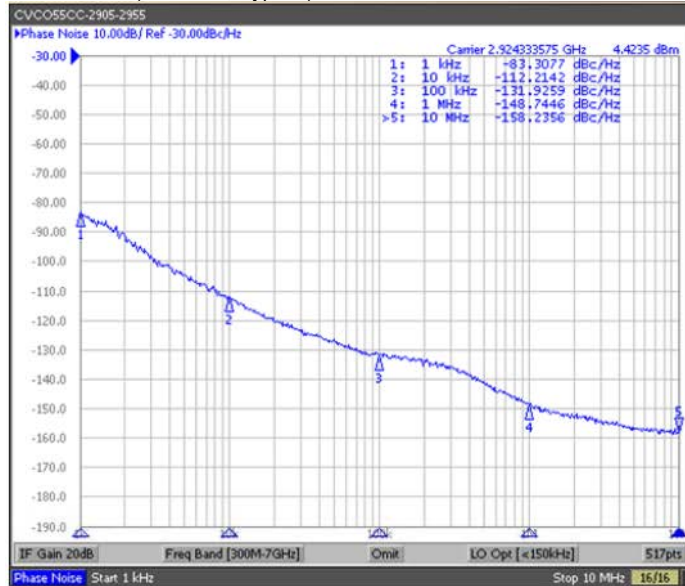
Ultra-Low Noise Coaxial Resonator Oscillator

### Specifications

Parameter	Units	Min.	Typical	Max.
Lower Frequency	MHz			2905
Upper Frequency	MHz	2955		
Supply Voltage	Vdc	4.75	5.00	5.25
Output Power	dBm	+2.0	+4.0	+6.0
Supply Current	mA		25	35
Load Impedance	$\Omega$		50	
Phase Noise	@10kHz offset		-110	-108
	@100kHz offset		-120	-118
Tuning Voltage	Vdc	0.3		4.7
Tuning Sensitivity	MHz/V		15	
2nd Harmonic Suppression	dBc		-15	-10
Pushing	MHz/V		1.0	
Pulling, all phases	MHz pk-pk		3.0	
Input Capacitance	pF			22
Operating Temperature Range	$^{\circ}\text{C}$	-40		+85
Storage Temperature Range	$^{\circ}\text{C}$	-45		+90

### Performance Data

Phase Noise (1 Hz BW, Typical)



Tuning Curve (Typical)

