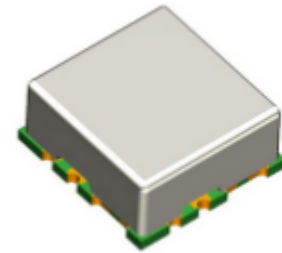




**Features and Benefits**

Frequency Range:5500-5815MHz  
 Supply Voltage:5V  
 Current: 30mA Typ.  
 Output power: 0dBm Typ.  
 Tuning Voltage: 0.5-4.5V  
 Phase noise: -90dBc/Hz@10KHz  
 Operating temperature: -30°C--+70°C  
 Size:12.7x12.7x3.9mm  
 Package type: SMD

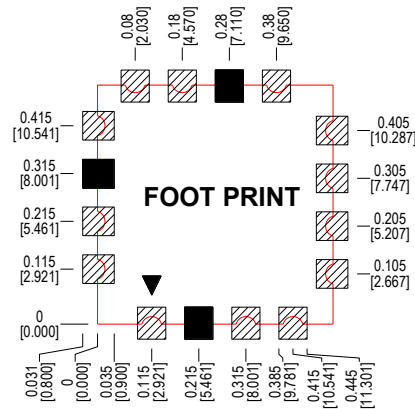
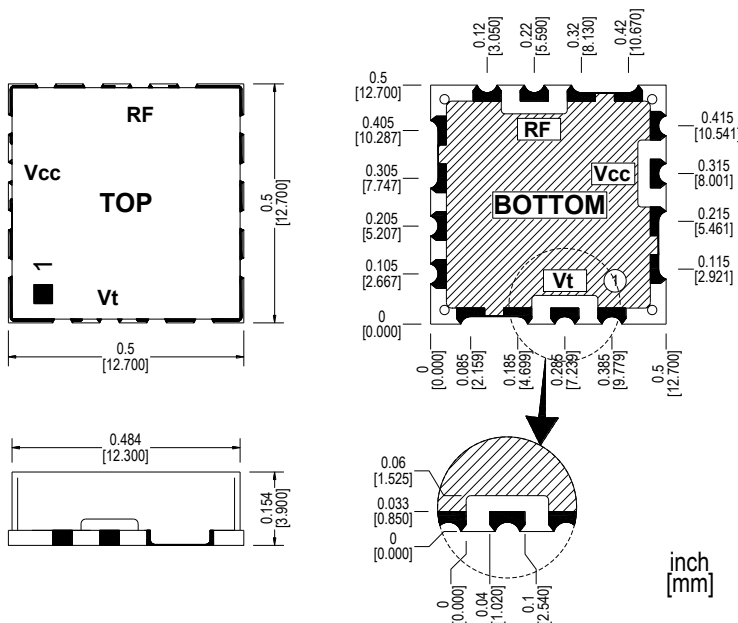


**Typical Applications**

- SATCOM
- Receiver
- Test Equipment
- Radar
- Point –to-Point
- Radio
- MMDS
- WiMax

**Mechanical Drawing & Pin Connections**

**Drawing No: MD140084-2**



PIN CONNECTIONS	
2	Vt
10	RF Out
14	Vcc
Others	GND



### Specifications

Parameter		Units	Min.	Typical	Max.
Operating Frequency Range		MHz	5500		5815
Power Supply (Vcc)	Voltage	Vdc		+5	
	Current	mA		30	
Output Power		dBm		0	
Output Impedance		$\Omega$		50	
Phase Noise @10kHz offset		dBc / Hz		-90	
Phase Noise @100kHz offset		dBc / Hz		-113	-110
Tuning Voltage (Vt)		V	0.5		4.5
Tuning Voltage Sensitivity (Kv)		MHz / V		100	
2 <sup>nd</sup> Harmonic Suppression		dBc		-22	
Pushing Figure		MHz / V		1.5	
Pulling Figure(9.5dB Return Loss, all phases)		MHz		5	
Input Capacitance		pF		1	
Operating Temperature Range		$^{\circ}$ C	-30		+70