



# Dynamic Engineers Inc.

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1030-1060MHz SMD VCO

## Features and Benefits

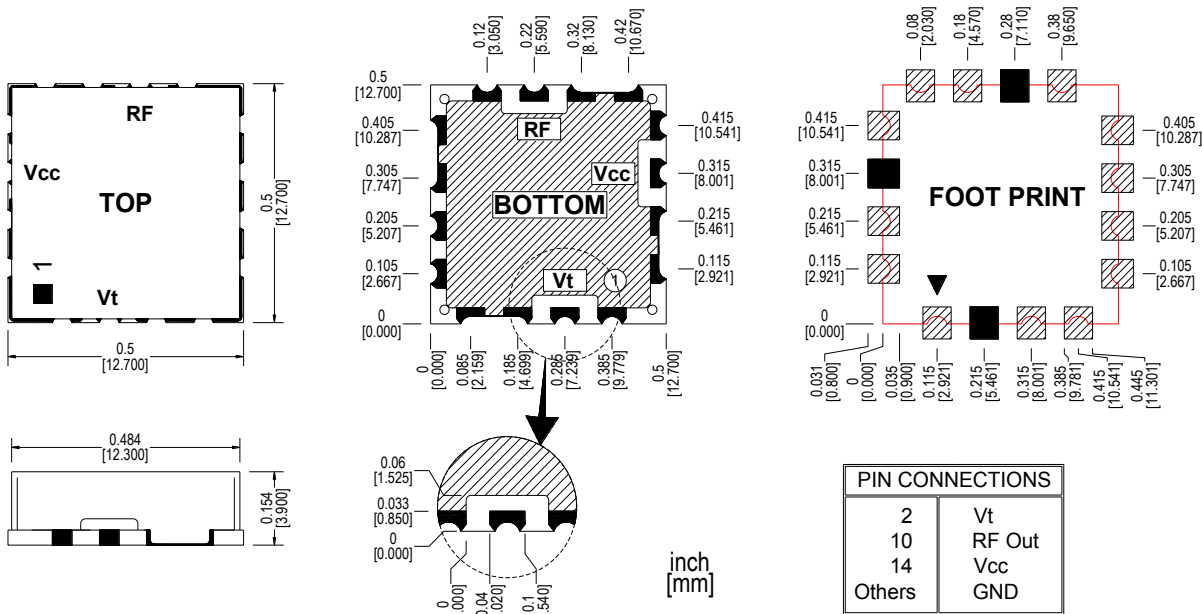
- Frequency range: 1030-1060MHz
- Supply voltage: 5.0V
- Current: 25mA Typ.
- Output power: +7.0dBm Max.
- Tuning voltage: 0.5V to 4.5V
- Phase noise: -107dBc/Hz@100KHz
- Operating temperature: -40°C to +85°C
- Size: 12.7x12.7x3.9mm

## Typical Applications

- SATCOM
- Receiver
- Radio
- MMDS
- Radar
- Test Equipment
- WiMax

## Mechanical Drawing & Pin Connections

Drawing No: MD140084-2





### Specifications

Parameter		Units	Min.	Typical	Max.
Operating Frequency Range		MHz	1030		1060
Power Supply (Vcc)	Voltage	Vdc	4.75	5.0	5.25
	Current	mA			25
Output Power		dBm	+3.0	+5.0	+7.0
Output Impedance		Ω		50	
Phase Noise @10kHz offset		dBc / Hz		-79	-73
Phase Noise @100kHz offset		dBc / Hz		-107	-102
Tuning Voltage (Vt)		V	+0.5		+4.5
Tuning Voltage Sensitivity (Kv)		MHz / V		20-28	
2nd Harmonic Suppression		dBc			-10
Pushing Figure		MHz / V		2	4
Pulling Figure (14dB return loss)		MHz		1	3
Input Capacitance		pF		22	
Operating Temperature Range		°C	-40		+85