



Features and Benefits

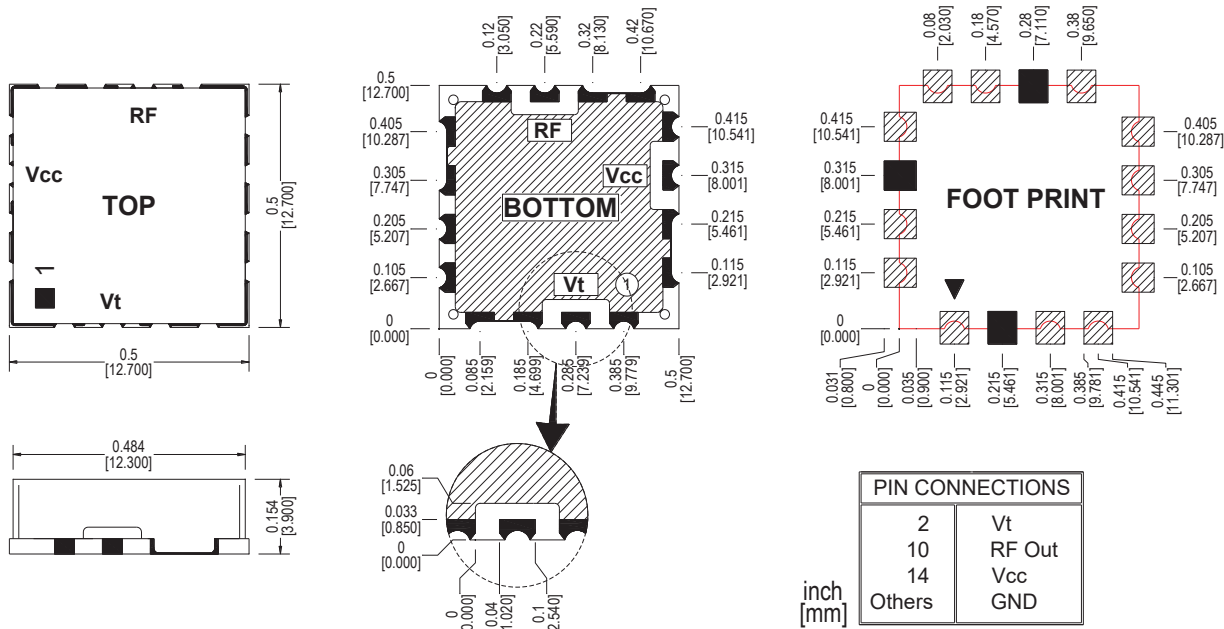
Frequency range: 900MHz to 1100MHz
Supply voltage: 5.0V
Steady current: 30mA Max
Output power: +7.5dBm Max.
Tuning voltage: 0.5V to 11V
Phase noise: -105dBc/Hz@10KHz
Operating temperature: -40°C to +85°C
Size: 12.7x12.7x3.9mm

Typical Applications

SATCOM
Receiver
Radio
MMDS
Radar
Test Equipment
WiMax

Mechanical Drawing & Pin Connections

Drawing No: MD140084-2





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VCO900-1100

900MHz to 1100MHz Voltage Controlled Oscillator

Specifications

Parameter		Units	Min.	Typical	Max.
Operating Frequency Range		MHz	900		1100
Power Supply (Vcc)	Voltage	Vdc		5.0	
	Current	mA			30
Output Power		dBm	+2.5	+5.0	+7.5
Output Impedance		Ω		50	
Phase Noise @10kHz offset		dBc / Hz		-105	-100
Phase Noise @100kHz offset		dBc / Hz		-126	-120
Tuning Voltage (Vt)		V	+0.5		+11
Tuning Voltage Sensitivity (Kv)		MHz / V		24-32	
2nd Harmonic Suppression		dBc			-10
Pushing Figure(5 \pm 0.25V)		MHz / V		2	5
Pulling Figure (12dB Return Loss)		MHz		5	10
Input Capacitance		pF		100	
Operating Temperature Range		$^{\circ}$ C	-40		+85