



Dynamic Engineers Inc.

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J7 C %&/%6 E !- %) A < n!5

JFĚ MHz SMD VCO_ Voltage Controlled
Oscillator

Features and Benefits

Frequency Range: 91.5 MHz

Supply Voltage: 5V

Current: 7 mA Typ.

Output power: +5 dBm Typ.

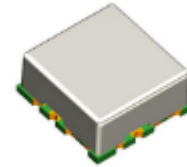
Tuning Voltage: 0.5-2.2 V

Phase noise: -120 dBc/Hz @ 10 KHz

Operating temperature: -40°C ~ +85°C

Size: 12.7 x 12.7 x 3.9 mm

Package type: SMD



Typical Applications

SATCOM

Receiver

Test Equipment

Radar

Point-to-Point

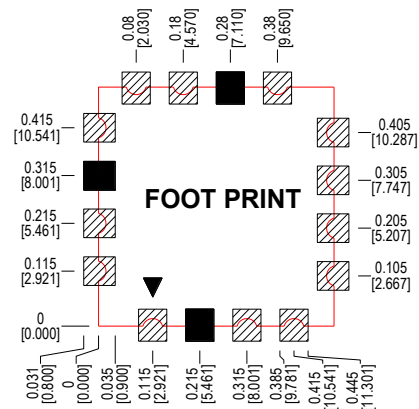
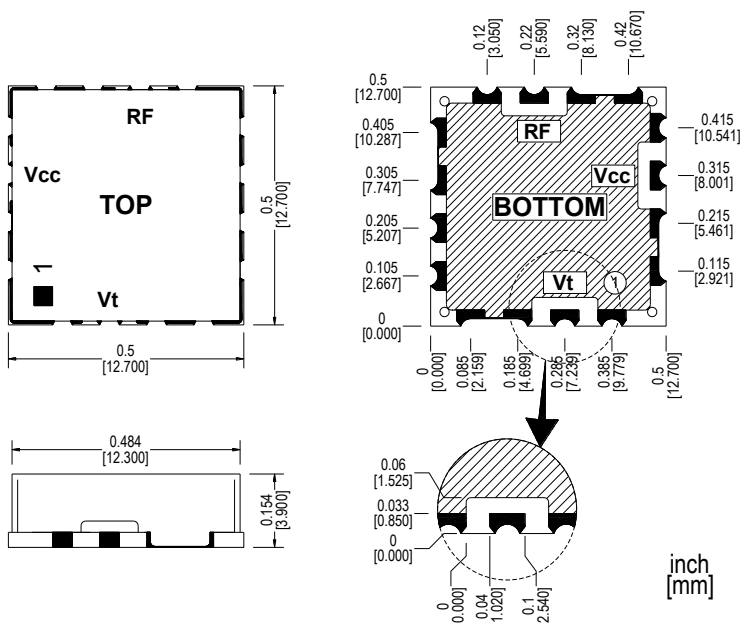
Radio

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		91.5	
Power Supply (Vcc)	Voltage	Vdc		+5	
	Current	mA		7	20
Output Power		dBm	+3	+5	+7
Output Impedance		Ω		50	
Phase Noise @10kHz offset		dBc / Hz		-120	-115
Phase Noise @100kHz offset		dBc / Hz		-140	-135
Tuning Voltage (Vt)		V	0.5		2.2
Tuning Voltage Sensitivity (Kv)		MHz / V		1.4-8.4	
2 nd Harmonic Suppression		dBc		-23	-15
Pushing Figure		MHz / V		4	
Pulling Figure		MHz		0.25	
Input Capacitance		pF		1000	
Operating Temperature Range		°C	-40		+85