

Dynamic Engineers Inc.

2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA TEL: 1-281-870-8822 EMAIL: Sales@DynamicEng.com **J 7 C %&%&6 E !%&\$A < n!% \$A < n!5** 120-130MHz SMD VCO

Features and Benefits

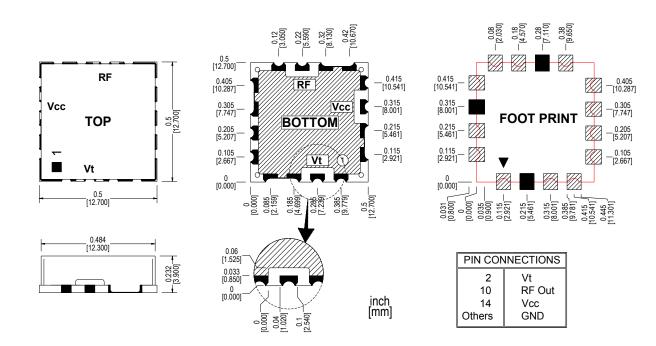
Frequency Range:120-130MHz Supply Voltage:5.0V Current: 20mA Max. Output power: +7.5dBm Max. Tuning Voltage: 1.0-4.0V Phase noise: -103dBc/Hz@10KHz Operating temperature: -40°C--+85°C Size:12.7x12.7x3.9mm

Typical Applications

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

Mechanical Drawing & Pin Connections

Drawing No: MD140084-2



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Specifications

Parameter		Units	Min.	Typical	Max.
Operating Frequency Range		MHz	120		130
Power Supply (Vcc)	Voltage	Vdc	+4.75	+5.0	+5.25
	Current	mA			20
Output Power		dBm	+2.5	+5.0	+7.5
Output Impedance		Ω		50	
Phase Noise @10kHz offset		dBc / Hz		-103	-97
Phase Noise @100kHz offset		dBc / Hz		-123	-118
Tuning Voltage (Vt)		V	1.0		4.0
Tuning Voltage Sensitivity (Kv)		MHz / V		6-10	
2nd Harmonic Suppression		dBc			-7
Pushing Figure		MHz		1	2
Pulling Figure(14dB RL)		MHz		1	2
Input Capacitance		pF		68	
Operating Temperature Range		0°C	-40		+85