



Dynamic Engineers Inc.

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VCO1212BQ-55MHz-130MHz-A

55-130MHz SMD VCO

Features and Benefits

Frequency Range:55-130MHz

Supply Voltage:12V

Current: 50mA Max.

Output power: +15.0dBm Max.

Tuning Voltage: 0-20V

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

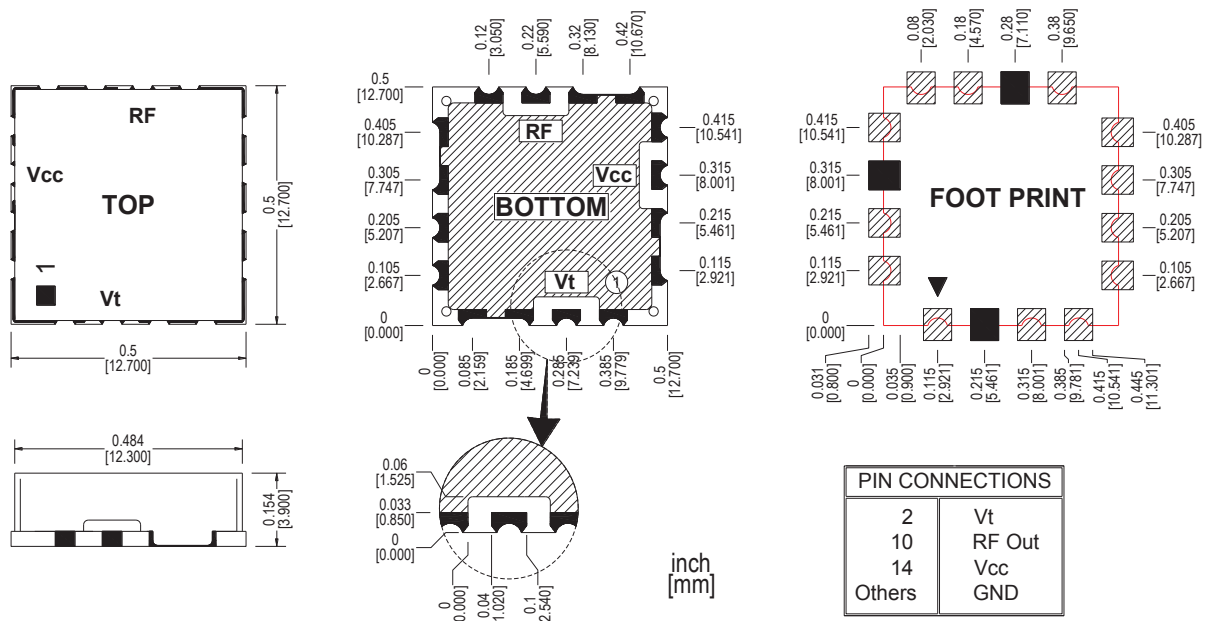
Radio

MMDS

WiMax

Mechanical Drawing & Pin Connections

Drawing No: MD140084-2





Specifications

Parameter		Units	Min.	Typical	Max.
Operating Frequency Range		MHz	55		130
Power Supply (Vcc)	Voltage	Vdc	11.4	12	12.6
	Current	mA			50
Output Power		dBm	+9.0	+12.0	+15.0
Output Impedance		Ω		50	
Phase Noise @10kHz offset		dBc / Hz		-103	-97
Tuning Voltage (Vt)		V	0		+20
Tuning Voltage Sensitivity (Kv)		MHz / V		4-7	
2nd Harmonic Suppression		dBc		-8	-5
Pushing Figure(11.4-12.6)		MHz		2	5
Pulling Figure(12dB RL)		MHz		2	5
Input Capacitance		pF		27	
Operating Temperature Range		°C	-40		+85