

Dynamic Engineers Inc.

Website: www.DynamicEngineers.com Email: Inquiry@DynamicEngineers.com VCO1212BQ-2996MHz-3032MHz-A

2996-3032MHz SMD VCO Voltage Controlled Oscillator

Features and Benefits

Frequency Range:2996-3032MHz

Supply Voltage:5V Current: 40mA Max. Output power: +1dBm Typ. Tuning Voltage: 0-5V

Phase noise: -100dBc/Hz@10KHz Operating temperature: -40°C--+85°C

Size:12.7x12.7x3.9mm Package type: SMD



Typical Applications

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

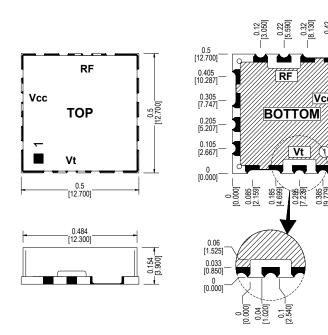
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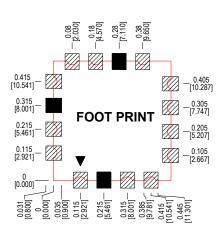
Mechanical Drawing & Pin Connections

Drawing No:

MD140084-2

3





PIN CONNECTIONS				
2	Vt			
10	RF Out			
14	Vcc			
Others	GND			

inch [mm]

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Oscillator

Specifications

Parameter		Units	Min.	Typical	Max.
Operating Frequency Range		MHz	2996		3032
Power Supply (Vcc)	Voltage	Vdc		+5	
	Current	mA			40
Output Power		dBm	-1.5	+1.0	+3.5
Output Impedance		Ω		50	
Phase Noise @10kHz offset		dBc / Hz		-100	
Phase Noise	@100kHz offset	dBc / Hz		-118	
Tuning Voltage (Vt)		V	0		5.0
Tuning Voltage Sensitivity (Kv)		MHz / V		10~20	
2 nd Harmonic Suppression		dBc			-10
Pushing Figure		MHz / V			5
Pulling Figure		MHz			7
Input Capacitance		pF		22	
Operating Temperature Range		°C	-40		+85