



# Dynamic Engineers Inc.

2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA  
TEL: 1-281-870-8822 EMAIL:Sales@DynamicEng.com

C7 LC) \$) \$5 B!\* \$A <n!5 !J  
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## Features and Benefits

- Frequency: 60MHz without internal multiplication
- Low phase noise: floor of <-167dBc/Hz
- High stability vs. temperature: 50ppb
- Low harmonics and sub-harmonics (optional)
- SMA output (optional)
- Low profile – just 12.7 mm height

## Typical Applications

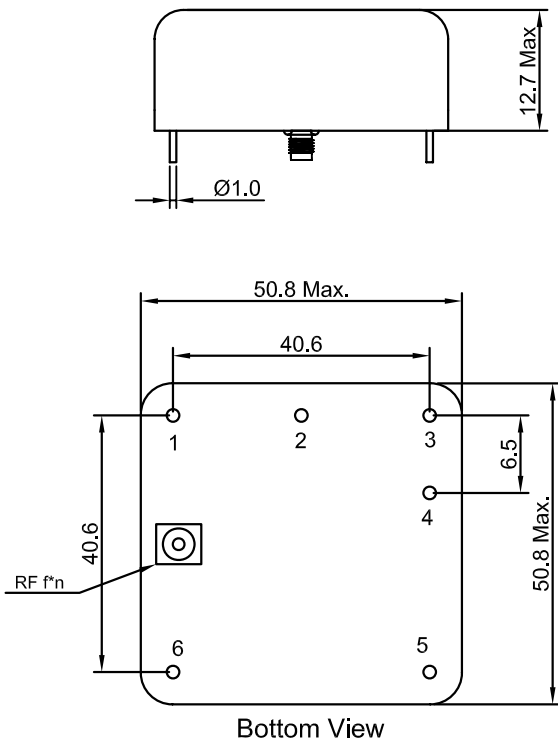
Ideal for PLL, VSAT, Frequency synthesizers

## Description

OCXO5050AN-60MHz-A-V offers high frequency stability, low long term aging and low phase noise, all in a compact package to suit the different communication needs.

## Mechanical Drawing & Pin Connections

Drawing No: MD1, \$\$&%{(



### Pin Connections:

Pin#	Function
1	Control Voltage
2	Reference Output
3	No Connection
4	Ground
5	Ground
6	Supply Volage

Unit in mm  
1mm = 0.0394 inches



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## Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency	$F_{nom}$			60		MHz	
<b>RF Output</b>							
Signal Waveform			Sinewave				
Load	$R_L$		50ohm±10%				
Level Voltage	$V_H$		400			mV	RMS
Harmonics & sub harmonics					-25	dBc	
<b>Power Supply</b>							
Reference Voltage VREF Output				8		V	
Supply Voltage	$V_S$	±10%		12		V	
Warm-up Time	$T_{up}$	At +25°C to $\Delta f/f=2e-7$			5	min	
Power Consumption		Steady state, +25°C			150	mA	
		Warm-up			450	mA	
<b>Frequency Adjustment Range</b>							
Electronic Frequency Control (EFC)			±3			ppm	
EFC voltage	$V_c$		0		8	V	
<b>Frequency Stability</b>							
Versus Operating Temperature Range					±50	ppb	
Versus Load					±50	ppb	
Versus supply voltage					±50	ppb	
Aging 1 <sup>st</sup> Year					±0.5	ppm	
SSB Phase noise		10Hz		-85		dBc	
		100Hz		-115		dBc	
		1kHz		-140		dBc	
		10kHz		-160		dBc	
<b>Environmental, Mechanical Conditions</b>							
Operating temperature range		0°C to 50°C					
Storage temperature range		-55°C to 80°C					
Vibration		10 to 500Hz, 5g					