C7LC' * &+7C!%\$\$A < n!5!J

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

Features and Benefits

Frequency range: 100MHz Supply voltage: 12.0V Steady Power: 1.5W Max Output waveform: CMOS

Frequency stability vs. operating temperature: ±100ppb

Aging: ±0.1ppm per year

Phase noise@10KHz: -150dBc/Hz
Operating temperature: -20°C to +70°C

Size: 36x27x15mm

Typical Applications

Communication System Time Synchronization RF/Microwave System

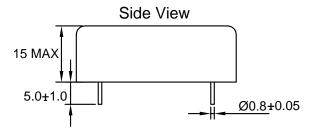
Description

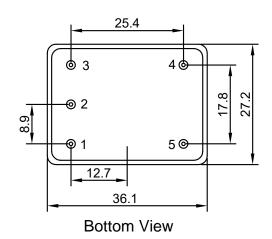
OCXO3627CO-100MHz-A-V is designed for applications where exceptional frequency stability and timing is required. It has both excellent temperature performance and short-term stability. These characteristics make it an excellent choice for timing applications.

Mechanical Drawing & Pin Connections

Drawing No:

MD24005+-1





Pin Connections:

Pin#	Function
1	Control Voltage
2	N.C./Reference Voltage
3	Supply Voltage
4	Output
5	GND

Unit in mm 1mm = 0.0394 inches



Dynamic Engineers Inc.

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High Performance Low Profile 100MHz OCXO

Specifications

Oscillator	Cress	Condition	Value			He-14	Note
Specification	Sym		Min.	Тур.	Max.	Unit	Note
Operational Frequency	F ₀			100		MHz	
RF Output							
Signal Waveform			CMOS				
Load	R∟			15		рF	
Output high level			90%Vcc			V	
Output low level					10%Vcc	V	
Duty Cycle			45		55	%	
Rise/Fall Time					10	nS	
Power Supply	•						
Supply Voltage	Vcc	±5%		12.0		V	
Power Consumption		Steady state @+25°C			1.5	W	
. ewer consumption		Warm-up@ turn on			3.6	W	
Frequency Adjustment Range							
Electronic Frequency Control (EFC)			±1			ppm	
Linearity			-10		+10	%	
EFC Slope				positive	-		
Frequency Stability				1			
Versus Operating		2000 / 7000			400		
Temperature Range		-20°C to +70°C			±100	ppb	
Initial Tolerance @+25°C		Refer to center Vcon			±0.05	ppm	
Versus supply voltage		±5% change			±3.0	ppb	
Versus load		±5% change			±3.0	ppb	
Warm-up time		< ±10 ⁻⁸ F ₀ Refer to 1 hour after turn on			7	min	
Aging Per Day		Under +25°C after			±1.0	ppb	
Aging 1 st Year		working 30 days			±0.1	ppm	
		10Hz			-90	dBc	
		100Hz			-120	dBc	
SSB Phase noise		1kHz			-140	dBc	
		10kHz			-150	dBc	
		100kHz			-155	dBc	