Dynamic Engineers Inc.

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OCXO3627CO-10MHz-A-V

High Performance Low Profile OCXO

Features and Benefits

Frequency range: 10MHz Supply voltage: 5.0V Steady Power: 1.5W Max Output waveform: CMOS

Frequency stability vs. operating temperature: ±10ppb

Aging: ±50ppb per year

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

Size: 36x27x12.7mm

Typical Applications

Communication System Time Synchronization RF/Microwave System

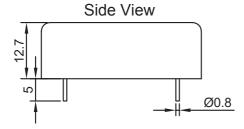
Description

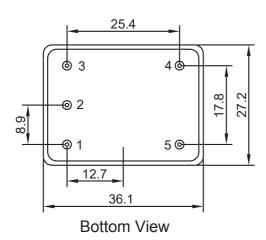
OCXO3627CO-10MHz-A-V is designed for applications where exceptional frequency stability and timing is required. It has both excellent temperature performance and short-term stability. These characteristics make it an excellent choice for timing applications.

Mechanical Drawing & Pin Connections

Drawing No:

MD220034-1





Pin Connections:

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

Unit in mm 1mm = 0.0394 inches



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Specifications

Oscillator	Sym	Condition	Value			Unit	Note
Specification			Min.	Тур.	Max.	Unit	Note
Operational Frequency	F ₀			10		MHz	
RF Output							
Signal Waveform			CMOS				
Load	R_L			50		pF	
Duty Cycle		@+2.5V	45		55	%	
Power Supply							
Supply Voltage	Vcc	±10%		5.0		V	_
Power Consumption		Steady state @+25°C			1.5	W	
		Warm-up@ turn on			3.6	W	
Frequency Adjustment Range							
Electronic Frequency Control (EFC)			±1			ppm	
EFC voltage	V _{con}		0.5	2.5	4.5	V	
Linearity			-10		+10	%	
EFC Slope				positive			
Frequency Stability							
Versus Operating Temperature Range		-20°C to +70°C			±10	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			±0.5	ppb	
Aging 1st Year		working 30 days			±50	ppb	
		100Hz			-140	dBc	
SSB Phase noise		1kHz			-145	dBc	
		10kHz			-150	dBc	
Environmental, Mechanical C	onditi <u>o</u> r	18					
Storage temperature range -40°C to +100°C							