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

OCXO5050AN-61.44MHz-A-V
High Frequency Low Phase Noise OCXO

Features and Benefits

Frequency: 61.44MHz without internal multiplication
Low phase noise: floor of <-165dBc/Hz
High stability vs. temperature: 100ppb
Low harmonics and sub-harmonics (optional)
SMA output (optional)
Low profile – just 12.7 mm height

Typical Applications

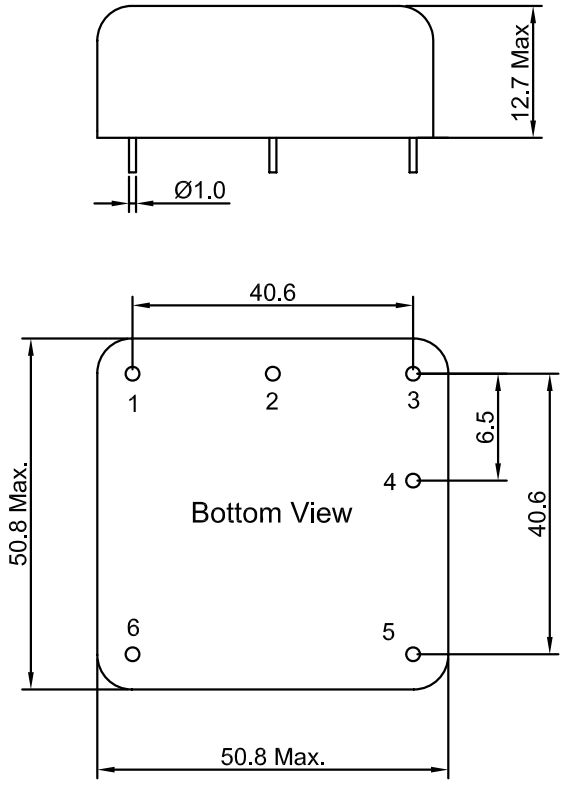
Ideal for PLL, VSAT, Frequency synthesizers

Description

OCXO5050AN-61.44MHz-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: **MD180021-2**



Pin Connections:

Pin#	Symbol	Function
1	Vc	Control Voltage
2	Vref	Reference Voltage
3	RF Out	RF Output
4	GND	Ground
5	GND	Ground
6	Vs	Supply Voltage

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}			61.44		MHz	
RF Output							
Signal Waveform				Sinewave			
Load	R_L			50ohm±10%			
Level Voltage	V_H		400			mV	RMS
Harmonics & sub harmonics					-25	dBc	
Power Supply							
Reference Voltage VREF Output				8		V	
Supply Voltage	V_S	±10%		12		V	
Warm-up Time	T_{up}	At +25°C to ∆f/f=2e-7			5	min	
Power Consumption		Steady state, +25°C			150	mA	
		Warm-up			450	mA	
Frequency Adjustment Range							
Electronic Frequency Control (EFC)			±3			ppm	
EFC voltage	V_c		0		8	V	
Frequency Stability							
Versus Operating Temperature Range				±100		ppb	
Versus Load				±50		ppb	
Versus supply voltage				±50		ppb	
Aging 1st Year				±0.1		ppm	
SSB Phase noise		10Hz		-100		dBc	
		100Hz		-130		dBc	
		1kHz		-152		dBc	
		10kHz		-165		dBc	
Environmental,Mechanical Conditions							
Operating temperature range	-40°C to 70°C						
Storage temperature range	-55°C to 80°C						
Vibration	10 to 500Hz,5g						