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

OCXO3627AM-100MHz-A-V
36x27x15mm OCXO

Features and Benefits

100MHz Frequency
12V Supply voltage
Sine wave Output
±50ppb Stability Vs -40C --+85C
36x27x15mm Size

Typical Applications

Synthesizers
SATCOM System
Portable Applications

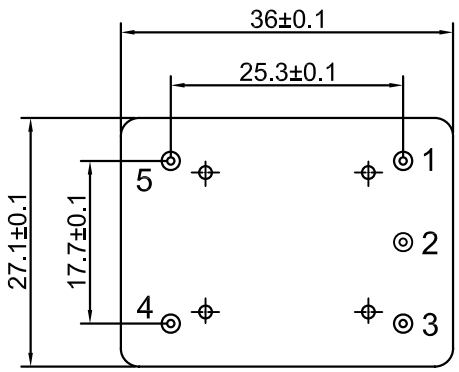
Description

OCXO3627AM-100MHz-A-V offers good frequency stability and low phase noise performance.

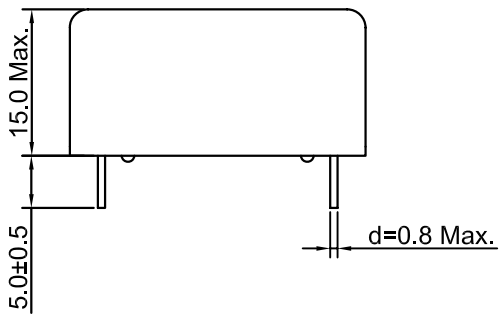
Mechanical Drawing & Pin Connections

Drawing No: MD150083-3

Bottom View



Side View



Pin Connections:

Pin	Symbol	Function
1	Vc	Control Voltage(EFC) or N.C.
2	VREF	Reference Voltage or N.C.
3	Vs	Supply Voltage
4	RF OUT	RF Output
5	GND	Ground

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}			100		MHz	
Output				Sine wave			
Load				50		ohm	
Harmonic					-30	dBc	
Spurious					-75	dBc	
Output power			11	13	15	dBm	
Power Supply							
Voltage	V_{cc}		11.75	12	12.25	V	
Current		Warm up			450	mA	
		Steady state			150	mA	
Tuning voltage			0.5	4.5	8.5	V	
Pulling range			-1		+1	ppm	
Frequency Stability							
Versus temperature				±50		ppb	
Versus change in supply voltage					5	ppb	
Versus change in load					5	ppb	
First Year Aging					200	ppb	
Aging/day					3	ppb	
Phase noise		10Hz(A)			-95	dBc/Hz	
		(B)			-100	dBc/Hz	
		100Hz(A)			-125	dBc/Hz	
		(B)			-130	dBc/Hz	
		1KHz(A)			-150	dBc/Hz	
		(B)			-155	dBc/Hz	
		10KHz(A)			-165	dBc/Hz	
		(B)			-170	dBc/Hz	
Environmental Conditions							
Operating temperature range	-40°C to 85°C						
Storage temperature range	-55°C to 100°C						