

Dynamic Engineers Inc.

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

Features and Benefits

Frequency range: 10MHz Supply voltage: 5.0V Steady current: 200mA Max. Output waveform: Sinewave Frequency stability vs. operating temperature: ±50ppb Aging: ±2ppb/day Operating temperature: -40°C to +85°C Size: 20.7x13.1x8.5mm

Typical Applications

Instrument Reference Microwave Communication Clock Reference for Microwave Signal Source Test & Measurement Telecom Systems

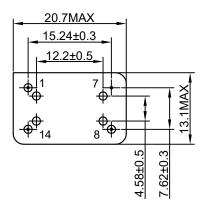
Description

The OCXO2014BF-10MHz-A-V is the 10MHz sinewave output OCXO. The frequency stability vs. temperature can less than \pm 50PPB and the day aging can be less than \pm 2PPB. It can be widely used in the communication device to improve the accuracy.

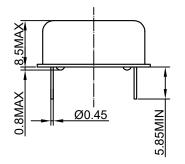
Mechanical Drawing & Pin Connections

Drawing No: MD140072-1

Bottom View



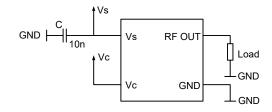
Side View



Pin Connections:

PIN #	Symbol	CONNECTION
1	Vc	Control Voltage(EFC)
7	GND	Ground
8	RF OUT	RF Output
14	Vs	Supply Voltage

Unit in mm 1mm = 0.0394 inches



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Rev. 1

Dynamic Engineers reserves the right to make changes to the company datasheet(s) along with other information contained inside, such as data tables and araphs without notification to potential customers who may have earlier revisions in their possession.



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Specifications

Oscillato	Oscillator	Sum	Condition	Value			Unit	Note
Specificati	on	Sym	Condition	Min.	Тур.	Max.	Unit	Note
Operational Frequency		f ₀			10		MHz	
Initial Tolerance			Vc@center value			±0.5	ppm	@+25°C
RF Output								
Waveform				Sinewave				
Load		R∟			50		Ohm	
Output Level				+3			dBm	
Harmonic						-25	dBc	
Power Supply								
Voltage		Vcc		4.75	5.0	5.25	V	
Power Consumpt	Consumption		Warm-up			500	mA	
			Steady state, @+25°C			200	mA	
Warm-up Time		TF	@+25°C, ∆f _{final} / f₀ < ±0.1 ppm			120	S	
Frequency Control								
Control Voltage Range		Vc		0.25	2.5	4.75	V	
Tuning Range				±1.0			ppm	
Input Impedance				100			Kohm	
EFC Slope		$ riangle \mathbf{f}/ riangle V_{c}$	Positive					
Frequency Stability								
Versus Temperat	ure		ref 25°C			±50	ppb	
Versus Supply Vo	oltage		±5% change			±10	ppb	
Versus Load			±10% change			±20	ppb	
Aging Per day			After 30 days of			±2.0	ppb	
Flistre			operation			±0.2	ppm	
Environmental C	Condition	S						
Operating Tempe	erature Ra	nge	-40°C to +85°C					
Storage Tempera	ature range	-55°C to +125 °C						