Sinewave Output OCXO

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

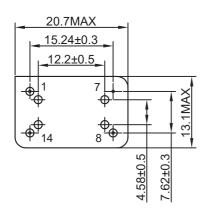
The OCXO2014BF-10MHz-A-V is the 10MHz sinewave output OCXO. The frequency stability vs. temperature can less than ±50PPB and the day aging can be less than ±2PPB. It can be widely used in the communication device to improve the accuracy.

Mechanical Drawing & Pin Connections

Drawing No:

MD140072-1

Bottom View

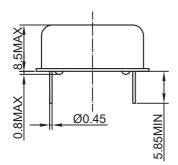


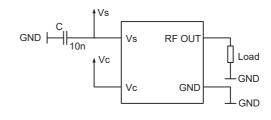
Pin Connections:

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

Side View





OCXO2014BF-10MHz-A-V

Sinewave Output OCXO

Specifications

Oscillator	0	O and little an	Value			1114	Nede
Specification	Sym	Condition	Min.	Тур.	Max.	Unit	Note
Operational Frequency f ₀				10		MHz	
Initial Tolerance		V。@center value			±0.5	ppm	@+25°C
RF Output							
Waveform			Sinewave				
Load	R_L			50		Ohm	
Output Level			+3			dBm	
Harmonic					-25	dBc	
Power Supply							
Voltage	V _{cc}		4.75	5.0	5.25	V	
Power Consumption		Warm-up			500	mA	
r ower consumption		Steady state, @+25°C			200	mA	
Warm-up Time	T _F	@+25°C, △f _{final} / f ₀ < ±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		△f/ △Vc	Positive				
Frequency Stability							
Versus Temperature		ref 25°C			±50	ppb	
Versus Supply Voltage		±5% change			±10	ppb	
Versus Load		±10% change			±20	ppb	
Aging Per day		After 30 days of			±2.0	ppb	
riist teal		operation			±0.2	ppm	
Environmental Conditions							
Operating Temperature Ra	-40°C to +85°C						
Storage Temperature range	9	-55°C to +125 °C					