Dynamic Engineers Inc.

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

C7LC''\$+5K!%\$A<n!;!J W|dæKŠ[¸ÁÚ[¸^\ÁPã®Á)œàããôÁTãããæ°\^ÁJÔÝUÁÁ

Features and Benefits

High stability: ± 3ppb over 0 to+50°C

Frequency:10MHz

Low aging: +/-0.5ppb/day, +/-0.5ppm/year

Output: Sinewave Voltage supply: +5V

Typical Applications

Portable Wireless Communications Mobile Test equipment Synthesizers Battery Powered Application

Description

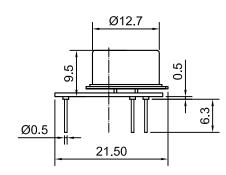
OCXO3307AW-10MHz-G-V offers high frequency stability, low long-term aging and low phase noise, all in a compact package to suit the different communication needs.

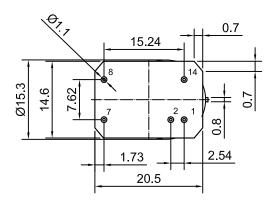
Mechanical Drawing & Pin Connections

Drawing No:

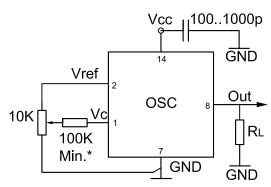
MD150013-8

DIP Package





Schematic connections



* Required for some versions

Pin	Signal
1	Electrical tuning
2	Reference voltage
7	GND
8	RF Out
14	+V Supply

Unit in mm 1mm = 0.0394 inches

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Specifications

Oscillator	0	O and Hilliam	Value			116.20	
Specification	Sym	Condition	Min.	Тур.	Max.	Unit	Note
Operational Frequency	F _{nom}			10		MHz	
RF Output							
Signal Waveform				Sinewave			
Level			7			dBm	
Load				50		ohm	
Harmonics Level					-25	dBc	
Power Supply							
Reference Voltage VREF Output			4		4.3	V	
Supply Voltage	Vs		4.75	5	5.25	V	
Warm-up Time	T_{up}	At +25°C to ∆f/f=1e-7	30		60	s	ref to freq after 15 min of operation
wann-up nine		At +25°C to △ f/f=1e-8		120		s	
Power Consumption		Steady state, +25°C		180		mW	
Fower Consumption		Warm-up		700	1200	mW	
Frequency Adjustment Range							
Electronic Frequency Control (EFC)		Compliance with 10 years aging	±0.3	±1		ppm	
EFC voltage	V _c		0		4.2	V	
EFC Slope				positive			
Frequency Stability						1 .	
Versus Operating Temperature Range		0C to +50C		±3		ppb	
Initial Tolerance @+25°C		V _C @ VREF / 2		±0.1		ppm	
Versus supply voltage	Vs	Ref Vcc typ		±2		ppb	
G-Sensitivity		Worst direction; 0- 1kHz vibration BW	±0.3		±1.0	ppb/G	
Retrace		24h work after 24h off			±10	ppb	
Allan deviation		1s	5	20		e-12	
Aging Per Day		After 30 days of		±0.5		ppb	
Aging 1 st Year		operation		±0.5		ppm	
		1Hz		-95		dBc	
		10Hz		-121		dBc	
Phase Noise		100Hz		-141		dBc	
1 11400 110100		1kHz		-155		dBc	
		10kHz		-165		dBc	
English and the little		100kHz		-165		dBc	
Environmental, Mechanical Conditions	0°C to 50	°C					
Operating temperature range	0°C to 50						
Storage temperature range Airflow velocity	-60°C to 85°C						
Power voltage	0.5 m/s maximum -0.5V to Vcc+20%						
Control voltage	-0.5V to 6V						
Humidity	Non-condensing 95%						
Mechanical shock	Per MIL-STD-202, 30G half sine pulse, 11ms						
Vibration	Per MIL-STD-202, 30G frail sine pulse, 11fris Per MIL-STD-202, 10G swept sine 10 to 2000 Hz						
Soldering conditions	Hand solder only – not reflow compatible 260°C 10s (on pins)						
Washing conditions	Washing with water or alcohol based detergent allowed only with final enough drying stage						
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