

Dynamic Engineers Inc.

Website: www.DynamicEngineers.com Email: Inquiry@DynamicEngineers.com

C7 LC''\$+7 J!%\$\$A < n!5 Š[¸ÁÕÁR∂T@ÁÙcceàājācíÁF€€T P:ÁUÔÝU′Uç^}Á Ô[}d[||^åÁÔ|^•cce|ÁU•&ā||æt[¦Á

Features and Benefits

Frequency range: 100MHz

Supply voltage: 5V

Steady current: 50mA Max Output waveform: Sinewave

Frequency stability vs. operating temperature: ±30ppb

Aging: ±0.05ppm per year

Operating temperature: -25°C to +85°C

Size: 20.5x15.3x9.5mm Package type: Through hole



Typical Applications

Portable Wireless Communications Mobile Test equipment Synthesizers Battery Powered Application

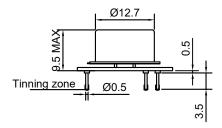
Description

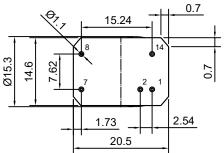
OCXO3307CV-100MHz-A offers high frequency stability, low long-term aging and low phase noise, all in a compact package to suit the different communication needs.

Mechanical Drawing & Pin Connections

Drawing No:

M8 &) \$\$\$(!&





Pin	Signal
1	I.C.
2	I.C.
7	GND
8	RF Out
14	Supply Voltage

Unit in mm 1mm = 0.0394 inches

Dynamic Engineers, Inc. Rev. 1



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Specifications

Oscillator	Sym	O and Hillian	Value					
Specification		Condition	Min.	Тур.	Max.	Unit	Note	
Operational Frequency	f ₀			100		MHz		
RF Output								
Signal Waveform		Sinewave						
Level			+10	+12		dBm	note	
Harmonics					-30	dBc		
Load			45	50	55	ohm		
Spurious level		$f_S=f_0\pm 2MHz$			-80	dBc		
Power Supply								
Supply Voltage	Vcc		4.75	5	5.25	V		
Warm-up current		V _{CC} =5V	120	-	220	mA		
Continuous current		at +25°C, V _{CC} =5V		35	50	mA		
Frequency warm-up time		to df/f=1e-7 at +25°C ref at 15 min		60		sec		
Frequency Stability								
Versus Operating Temperature Range		ref +25°C			±30	ppb	note	
Initial Tolerance @+25°C	(f-f ₀)/f ₀	$V_{C}=V_{C0}$	-0.1		+0.1	ppm	note	
Versus supply voltage	(1.10),10	ref V _{CC} typ.			±5	dad		
Torono cappy remage		Initial accuracy +				ppm		
Overall		Temp + Load +			0.5			
		Supply + Aging 10			±0.5			
		years						
G-sensitivity		worst axis			±1	ppb/G		
-		10Hz		-95	-90	dBc/Hz		
		100Hz		-125	-120			
000 01 (0) (1)		1KHz		-155	-150			
SSB Phase noise (Static)		10KHz		-168	-165			
		100KHz		-170	-165			
		1MHz		-172	-167			
Aging Per Day								
3 3 3 4	After 30 days of				±0.5 pp	ppb		
Aging 1 st Year		operation			±0.05	ppm		
Maximum ratings, environmental, mech	anical condi	tions						
Operating temperature range	-25°C to +							
Storage temperature range	-60°C to +85°C							
Power voltage	-0.5 to 6 V							
Control voltage	-1.0 to 6 V							
Air flow velocity	0.5 m/s maximum							
Humidity		Non-condensing 95%						
Mechanical shock	Per MIL-STD-202, 30G, 11ms							
Vibration	Per MIL-STD-202, 10G swept sine 10 to 2000Hz							
Soldering conditions		der only – not reflow com			ns)			
Washing conditions		with water or alcohol bas				onguah daving	ı etago	

Note: Included in the test data