

Dynamic Engineers Inc.

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

OCXO3307CV-10MHz-B

Low G High Stability 10MHz OCXO_Oven Controlled Crystal Oscillator

Features and Benefits

Frequency range: 10MHz Supply voltage: 5V

Steady current: 50mA Max

Output waveform: HCMOS

Frequency stability vs. operating temperature: ±30ppb

Aging: ±0.02ppm 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

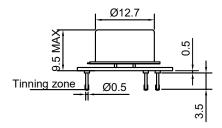
Description

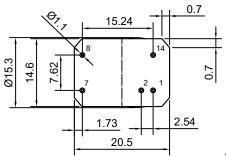
OCXO3307CV-10MHz-B offers high frequency stability, low long-term aging and low phase noise, all in a compact package to suit the different communication needs.

Mechanical Drawing & Pin Connections

Drawing No:

MD250004-2





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

Unit in mm 1mm = 0.0394 inches



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Controlled Crystal Oscillator

Specifications

Oscillator	Sym C	0 1141	Value						
Specification		Condition	Min.	Тур.	Max.	Unit	Note		
Operational Frequency	f ₀			10		MHz			
RF Output		•							
Signal Waveform				HCM	10S				
High Level			3.8			V			
Low Level					0.4	V			
Load	R∟		10			Kohm			
Load	CL				15	pF			
Duty Cycle			45	50	55	%			
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			50	mA			
For more than the second secon		to df/f=1e-7 at		00					
Frequency warm-up time		+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	, ,,	ref V _{CC} typ.			±2	ppb			
		Initial accuracy +							
Overall		Temp + Load +			.0.5				
		Supply + Aging 10			±0.5	ppm			
		years							
G-sensitivity		worst axis			±1	ppb/G			
		10Hz		-125					
CCD Dhaga naiga (Statia Values are		100Hz		-150					
SSB Phase noise (Static. Values are for reference only and are subject to change.)		1KHz		-162		dBc/Hz			
		10KHz		-165		dbc/H2			
		100KHz		-168					
		1MHz		-168					
Aging Per Day					±0.2	ppb			
		After 30 days of			±0.2	ppu			
Aging 1 st Year		operation			±0.02	ppm			
Maximum ratings, environmental, mech									
Operating temperature range	-25°C to +85°C								
Storage temperature range	-60°C to +85°C								
Power voltage	-0.5 to 6 V								
Control voltage		-1.0 to 6 V							
Humidity	Non-condensing 95%								
Mechanical shock	Per MIL-STD-202, 30G, 11ms								
Vibration	Per MIL-STD-202, 10G to 2000Hz								
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								

Note: Included in the test data