Features and Benefits

Very low power consumption(to 0.18W at +25°C)
DIP14 compatible 9.3mm height packaging
High frequency stability(up to +/-5ppb over -40°C to +70°C)
Very fast warming-up 60s typical (to 15s optionally)

Description

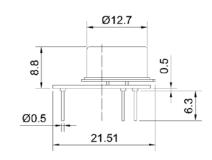
OCXO3307C series offers wide temperature operation from -40°C to +85°C with outstanding frequency stability and low phase noise performance all with very fast warm-up and less than 0.18W power dissipation at 25°C.

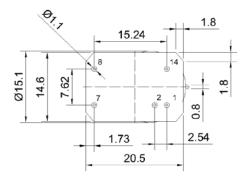
Typical Applications

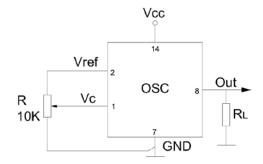
UHF Synthesizers
SATCOM System
Portable Microwave Applications

Mechanical Drawing & Pin Connections

Drawing No: MD140076-1







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

Unit: mm

Specifications

OCXO Specification		Sym	Condition	Value			Unit	Note		
		Sylli	Condition	Min.	Тур.	Max.	Unit	Note		
Frequency Range		F ₀			10		MHz			
RF Output										
Sine wave	Level	L		+7			dBm			
	Load	RL			50		Ohm			
	Harmonics Level					-30	dBc			
Sub-harmonics Level					None					
Power Supp	ly									
Voltage		Vcc		4.75	5.0	5.25	V			
Power Consu	imption		Steady-state@+25°C		0.18		W			
Power Consumption			Warm-up		1.0		W			
Warm-up Time			To∆f/f=1e-7, at 25°C Ref. to frequency after 15min.			60	S	15s-optional		
Frequency C	Control									
Control Volta	Control Voltage		Vcc=5V	0		4.2	V	Tuning slop-positive		
Tuning Range				+/-0.5	+/-1		ppm	<u> </u>		
Reference Voltage		Vref	Vcc=5V	4.1	4.2	4.3	V			
Frequency S										
Vs. Operating Temperature Range			-40°C to +70°C			+/-5	ppb	Ref 25°C		
	Vs. Supply Voltage Change		Ref. Vcc typ.		+/-2		ppb			
Vs. Accelerat	Vs. Acceleration		Worst direction			+/-1	ppb/G			
Aging	Per Day		After 30 days of			+/-0.3	ppb			
0 0	Per Year		operation			+/-30	ppb			
Phase Noise	9									
			@1Hz		-100					
Phase Noise			@10Hz		-135					
			@100Hz		-158		dBc/Hz			
			@1KHz		-165					
			@10KHz		-170					
Environmen										
			-40°C to +70°C							
5 5			-60°C to +90°C							
Humidity			Non-condensing 95%							
Mechanical Shock		Per M	Per MIL-STD-202, 30G half sine pulse, 11ms Per MIL-STD-202, 10G swept sine 10 to 2000Hz							
Vibration										
Soldering Co	pnaitions	Hand	Hand solder only – not reflow compatible260°C 10s(on pins)							