Features and Benefits

Very low power consumption(to 0.18W at +25°C)
DIP14 compatible 9.3mm height packaging
High frequency stability(up to +/-3ppb over -40°C to +85°C)
Very fast warming-up 60s typical
Very low phase noise
Low aging(0.2ppb/day; 0.02ppm/year)

Typical Applications

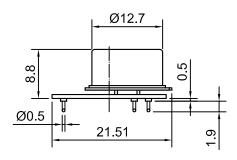
UHF Synthesizers SATCOM System Portable Microwave Applications

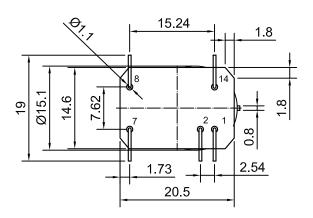
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OCXO3308C series offers wide temperature operation from -40°C to +85°C with outstanding frequency stability and low phase noise performance all with very fast warm-up and less than 0.18W power dissipation at 25°C.

Mechanical Drawing & Pin Connections

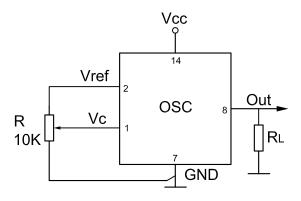
Physical dimensions





Drawing No: MD1(00+*!&

Schematic connections



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

Unit in mm 1mm = 0.0394 inches



Dynamic Engineers Inc.

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

C7 LC''\$, 7!%\$A < n!5!J X^¦^ÆS[¸ÁÚ[¸^¦ÆPã®ÁÛœæàããcÆTājãææč¦^ÁUÔÝU

Specifications

ОСХО		Sy	Condition		Value		Unit	Note		
Specification		m	Condition	Min.	Тур.	Max.	Unit	Note		
Frequency Range		F ₀			10		MHz			
RF Outpu	ıt	<u> </u>		1		<u>, </u>				
	Load			10			Kohm			
						10/5	pF			
HCMOS	H-Level Voltage	VH		3.8			V			
	L-Level Voltage	VL				0.4	V			
	Duty Cycle			45		55	%			
	Rise/Fall Time					10/3	ns			
Power Su	рріу	1/22		4.75	5.0	F 0F	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
Voltage		Vcc	Chandy	4.75	5.0	5.25	V			
Power Consumption			Steady- state@+25°C		0.18		W			
			Warm-up		1.0		W			
Warm-up Time			To∆f/f=1e-7, at 25°C Ref. to frequency after 15min.			60	s			
Frequenc	y Control									
Control Voltage		Vc	Vcc=5V	0		4.2	V	Tuning slop-positive		
Tuning Range				+/-0.5	+/-1		ppm			
Reference Voltage		Vre f	Vcc=5V	4.1	4.2	4.5	V			
Frequenc	y Stability									
Vs. Operating Temperature Range			-40°C to +85°C			+/-3	ppb	Ref 25°C		
Vs. Supply Voltage Change			Ref. Vcc typ.		+/-2		ppb			
Vs. Acceleration			Worst direction			+/-1	ppb/G			
Aging Per day			After 30 days of			+/-0.2	ppb			
Aging	Per year		operation			+/-0.02	ppm			
Phase No	ise									
			@1Hz		-100					
			@10Hz		-135					
Phase Noise			@100Hz		-159		dBc/Hz			
			@1KHz		-166		GD0/112			
			@10KHz		-170					
			@100KHz		-170					
Environm		4000	24 - 0500							
Operating Temperature Range		-40°C to +85°C								
Storage Temperature Range		-60°C to +90°C								
Humidity Mechanical Shock		Non-condensing 95% Per MIL-STD-202, 30G half sine pulse, 11ms								
	Vibration		Per MIL-STD-202, 30G Half Sine pulse, 1111S Per MIL-STD-202, 10G swept sine 10 to 2000Hz							
	Conditions		I solder only – not ref				2)			
Soluening	Conditions	папс	i soluei orily – Hot lei	iow compa	211DIEZ00 C	roston bins	P)			