

Dynamic Engineers Inc.

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

C7LC''\$+!%\$A<n!9!J Pã @ÁÙœàããc ÁJÔÝUÁ

Features and Benefits

Sine wave output 12V supply voltage High frequency stability(up to +/-0.5ppb over 0°C to +80°C) Low phase noise

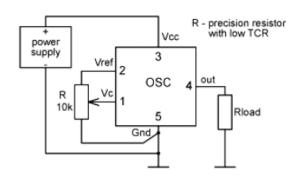
Typical Applications

UHF Synthesizers
SATCOM System
Portable Microwave Applications
Instrument Calibration Reference Source

Mechanical Drawing & Pin Connections

25,4±0,2 17,78±0,2 35,4±0,1 35,4±0,1

Drawing No: MD150080-1



 $15,8\pm0,1$

8,0±9

0,8±0,05



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Specifications

OCXO Specification Frequency Range		Sym F ₀	Condition	Value			Unit	Note
				Min.	Тур.	Max.		Note
					10		MHz	
RF Output								
Sine wave	Level	L		+6	+8		dBm	
	Load	RL		45	50	55	Ohm	
	Harmonics Level					-25	dBc	
Sub-harmoni					None			
Power Supp	oly					<u> </u>		
Voltage		Vcc		11.4	12.0	12.6	V	
Power Consumption			Steady-state@+25°C			200	mA	
			Warm-up	400		550	mA	
Warm-up Time			To∆f/f=1e-8, at 25°C			5	Min.	
			Ref. to 1h of operation					
Frequency (, :			
Input Resistance					11		Kohm	
Control Voltage		Vc		0		4.2	V	Tuning slop-positive
Preset Contr		V _{C0}	Disconnect V _C PIN	1.6	2.1	2.6	V	
	(f∟-f)/f		V _C =0V			-0.35	ppm	
Tuning Range (f-f)/f (f _H -f)/f			V _C =V _{C0}	0.05	0		ppm	
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	V _C =V _{ref}	+0.35	4.0	4.0	ppm	
Reference Voltage Output Resistance of V _{ref}		V_{ref}		4.1	4.2	4.3	V	
Cutput Resis	stance of V _{ref}				91		Ohm	
Vs. Operating Temperature Range			+25°C to +55°C			1		
			ref +40°C			+/-0.1	ppb	
			0°C to +80°C					
			ref +40°C			+/-0.5	ppb	
Frequency Tolerance			@+25°C			+/-0.1	ppm	
Vs. Supply Voltage Change			Ref. Vcc typ.			+/-0.1	ppb	
Allan Variance			1.0s		3	.,	e-12	
Aging	Per Day		After 30 days of			+/-0.2	ppb	
	Per Year		operation			+/-20	ppb	
Phase Noise			·	,				
Phase Noise			@1Hz	I	-95		dBc/Hz	
			@10Hz		-130			
			@100Hz		-150			
			@1KHz		-160			
			@10KHz		-165			
			@100KHz		-167			
Environmen	tal		S . 55 <u>-</u>					
Operating Temperature Range		0°C to +80°C						
Storage Temperature Range		-60°C to +90°C						
Humidity		Hermetically sealed						
Mechanical Shock		Per MIL-STD-202, 30G half sine pulse, 11ms						
Vibration		Per MIL-STD-202, 500 Hall sine pulse, 111115 Per MIL-STD-202, 5G to 500Hz						
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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