## Dynamic Engineers Inc.

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

**C7 LC''\$+!%\$A < n!:!J** W|dæÛlœà|^ÁÖ[`à|^ÁJç^}ÁJÔÝUÁÁ

#### Features and Benefits

High frequency stability(+/-0.1ppb from -10°C to +60°C) Less than +/- 0.2 ppb per day aging at time of shipment Low phase noise level(-165dBc/Hz, TYP, floor) Excellent Allan variance, 1s to 1x10<sup>-12</sup> Small size packaging

#### Typical Applications

Rubidium Standard Replacement GPS Receiver Instrumentation Stratum 2 Clock System

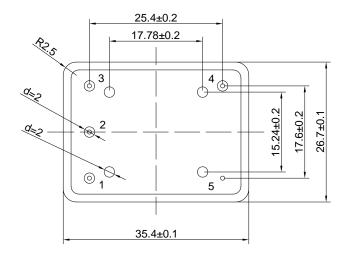
#### Description

The OCXO3307 " F " version is a double oven design ideal for 24 hour hold-over applications such as 4G LTE or high performance GPS systems.

### Mechanical Drawing & Pin Connections

Drawing No:

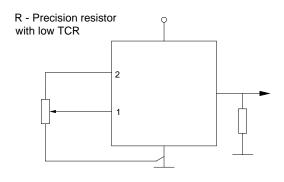
MD140080-1



6.2±0.8	15.8±0.1 16.25±0.35
	d=0.8±0.05

Pin	Signal
1	Electrical tuning
2	Reference voltage
3	+V Supply
4	RF OUT
5	GND

Unit: mm





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## **Specifications**

	OCXO Specification	Sym	Condition	Min.	Value Typ.	Max.	Unit	Note
Frequency R	<u> </u>	F <sub>0</sub>		WIIII.	10	Max.	MHz	
RF Output	tarigo	. 0			10		141112	
rti Gatpat	Level	1 1	l l	+6	+8		dBm	
Sine wave	Load	RL		45	50	55	Ohm	
	Harmonics Level	IXE		40		-30	dBc	
Sub-harmoni					None	- 00	u.bo	
Power Supp					, tout			
Voltage	,	Vcc		4.75	5.0	5.25	V	
	,,		Steady-state@+25°C		5		W	
Power Consu	umption		Warm-up		1.25	1.5	W	
Warm-up Time			To∆f/f=1e-8, at 25°C			-	N.A.	
			Ref. to 1h of operation			5	Min.	
Frequency (	Control							
Control Volta	age	Vc		0		4.2	V	Tuning slop-positive
Preset Contr		V <sub>C0</sub>	Disconnect V <sub>C</sub> PIN	1.6	2.1	2.6	V	<del> </del>
Tuning Rang				+/-0.3	+/-0.4		ppm	
Reference V	oltage	$V_{ref}$		4.1	4.2	4.3	V	
Frequency S	Stability							
Vs. Operatin	g Temperature Range		-10°C to +60°C ref +25°C			+/-0.1	ppb	
Vs. Supply V	oltage Change		Ref. Vcc typ.			+/-0.1	ppb	
Allan Variano	ce		1.0s	1			e-12	
Aging	Per Day		After 30 days of			+/-0.2	ppb	
	Per Year		operation			+/-15	ppb	
<b>Phase Noise</b>	e							
Phase Noise			@1Hz		-100			
			@10Hz		-130		dBc/Hz	
			@100Hz		-147			
			@1KHz		-155			
			@10KHz		-165			
Environmen								
	emperature Range	-10°C to +60°C						
	perature Range		-60°C to +90°C					
Humidity			Hermetically sealed					
Mechanical S	Shock		Per MIL-STD-202, 30G half sine pulse, 11ms					
Vibration	and the first of the second		Per MIL-STD-202, 5G to 500Hz  Hand solder only – not reflow compatible260°C 10s(on pins)					
Soldering Co								
Washing Cor	naitions	Washi	ng with water or alcohol ba	ased deterge	ent allowed only	with final en	ough drying	stage