## Dynamic Engineers Inc.

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

### H7 L C &\$%+6 M 2.0 x1.6 mm SMD VCTCXO

### **Features and Benefits**

Typical 2.0 x 1.6 x 0.7 mm ceramic SMD package For automatic assembly. Compactness and lightweight. Miniature size and low profile.

#### **Typical Applications**

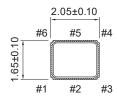
GPS WiMAX, WLAN Mobile Phone IoT, Wearable Electronics

## **Mechanical Drawing & Pin Connections**

**Drawing No:** 

MD200047-1





#### [BOTTOM VIEW]



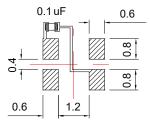
#### [SIDE VIEW]



Pin#	Function					
1	Vcon: VC-TCXO GND:TCXO					
2	No Connection					
3	GND					
4	Output					
5	No Connection					
6	VDD					

Unit in mm 1mm = 0.0394 inches

#### Solder PAD Layout



To ensure optimal oscillator performance, place a by-pass capacitor of  $0.1\mu F$  as close to the part as possible between Vdd and GND pads.

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## **Specifications**

Specification	Condition	3.3V/3.0V/2.8V		2.5V		1.8V		Halt
Specification		Min.	Max.	Min.	Max.	Min.	Max.	Unit
Supply Voltage Variation (VDD)		2.66	3.465	2.375	2.625	1.71	1.89	V
Frequency Range		10	52	10	52	10	52	MHz
Frequency Tolerance	@25°C,1 hour after reflow		±2.0		±2.0		±2.0	ppm
Standard Frequency			1	6.369,19.	2,26,38.4			MHz
Frequency Stability								
Vs Supply Voltage Change	±5%		±0.2		±0.2		±0.2	ppm
Vs Load Change	±10%		±0.2		±0.2		±0.2	ppm
Vs Aging (first year)			±1.0		±1.0		±1.0	ppm
Committee Committee	10MHz≤Fo≤26MHz	-	1.5	-	1.5	-	1.5	mA
Supply Current	26MHz <fo≤52mhz< td=""><td>-</td><td>2.0</td><td>-</td><td>2.0</td><td>-</td><td>2.0</td></fo≤52mhz<>	-	2.0	-	2.0	-	2.0	
Output Level (Clipped Sinewave)		0.8	-	0.8	-	0.8	-	Vp-p
Load		10kohi	n//10pf	10kohm//10pf 10		10koh	m//10pf	
Control Voltage Range	VCTCXO	0.5	2.5	0.4	2.4	0.3	1.5	V
Pulling Range	VCTCXO	±5.0		±5.0		±5.0		ppm
Vc Input Impedance	VCTCXO	500		500		500		kohm
Phase Noise@19.2MHz								
	100Hz	-115		-115		-115		dBc/Hz
	1KHz	-135		-135		-135		
	10KHz	-148		-148		-148		
Start Time		-	2	-	2	-	2	mSec
Storage Temp. Range		-55°C to +125°C						°C

## Frequency Stability vs. Temperature

	±0.5PPM	±1.0PPM	±1.5PPM	±2.0PPM	±2.5PPM
-20°C to +70°C	Available	Available	Available	Available	Available
-30°C to +85°C	Available	Available	Available	Available	Available
-40°C to +85°C	Available	Available	Available	Available	Available

Note: not all combination of options are available. Other specifications may be available upon request.