

# Dynamic Engineers Inc.

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

#### **Features and Benefits**

High frequency stability (up to ±0.5ppm over -40°C to +85°C) Sinewave Output SMD Miniature package

### **Typical Applications**

5G Repeater Link and micro cells Low noise microwave

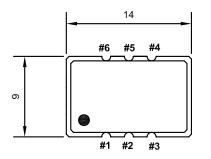
#### **Description**

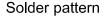
TCXO914BTLG\_series offers wide temperature operation from -40°C to +85°C with outstanding frequency stability and low phase noise performance.

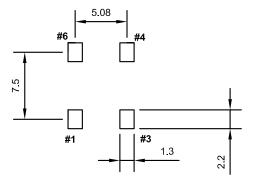
#### **Mechanical Drawing & Pin Connections**

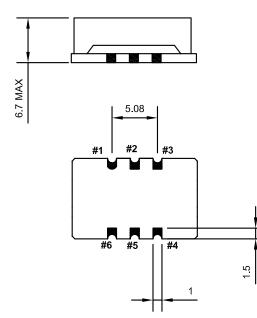
**Drawing No:** 

MD190003-1









#### **PIN Function**

#1	NC or GND				
#2	N.C.				
#3	GND				
#4	RF Output				
#5	N.C.				
#6	Vcc				

unit in mm 1mm = 0.0394 inches

Low G Sensitivity, vibration resistant TCXO

**TCXO914BTLG** series

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Dynamic Engineers reserves the right to make changes to the company datasheet(s) along with other information contained inside; such as data tables and graphs without notification to potential customers who may have earlier revisions in their possession.



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## **Specifications**

Oscillator Specification		Constitues	Value			1 Junit	Nete	
		Sym	Condition	Min.	Тур.	Max.	Unit	Note
Operational	Frequency	Fnom		50,60,70,80,100,120,125,150		MHz		
Sinewave Output Level Output Load	Output Level			5		8	dBm	
					50		ohm	
Power Sup	ply							
Voltage		V <sub>cc</sub>			3.30		V	5.0V on request
Current Cor	sumption				30		mA	
Frequency	Control*							
Frequency S	Slope		Over operating temperature			0.05	ppm/°C	
Frequency	Stability							
Versus tem	perature		-40°C to 85°C, ref to (fmax+fmin)/2	-0.5		+0.5	ppm	
Tolerance a	t 25°C			0		+1.0	ppm	
Versus ±5% voltage	change in supply		Ref to frequency at nominal supply	-0. 05		+0.05	ppm	
Versus ±10	% change in load		Ref to frequency at nominal load	-0.05		+0.05	ppm	
Sub harmor	nics					-60	dBc	
First Year A	ging		@40°C	-1.0		+1.0	ppm	
G Sensitivity	ý			0.5 ppb/g per axis, 10 ~ 2'000Hz Max. 0.3 ppb/g per axis, 10 ~ 2'000Hz Typ				
Phase noise (typ.) @100MHz		10Hz		-78				
		100 Hz		-105				
		1000 Hz		-127				
		10 KHz		-150		dBc/Hz		
		100 KHz		-177				
		1000 KHz		-180				
Short	-Term Stability	ADEV	Tau = 1 second			1.0	E-10	
Environme	ntal Conditions							
Operating te	emperature range	-40°C to	85°C					
	perature range	-55°C to 105°C						
Reflow profi IPC/JEDEC	les as per J-STD-020C	≤ 245 °C	over 10 s max.					