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) (LV)HCMOS Output SMD Miniature package

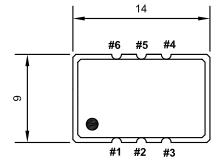
Typical Applications

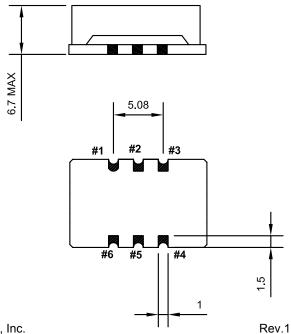
5G Repeater Link and micro cells Low noise microwave

Description

TCXO915BTLG_HCMOS offers wide temperature operation from -40°C to +85°C with outstanding frequency stability and low phase noise performance.

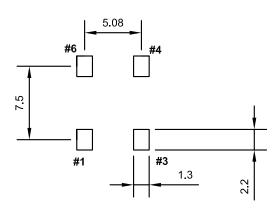
Mechanical Drawing & Pin Connections





Drawing No: MD190003-1

Solder pattern



PIN Function

#1	Control Voltage for VC-TCXO GND for TCXO					
#2	N.C.					
#3	GND					
#4	RF Output					
#5	N.C.					
#6	Vcc					

unit in mm 1mm = 0.0394 inches



Dynamic Engineers Inc.

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TCXO915BTLG_HCMOS

High stability, Low jitter, Low G Sensitivity (VC)TCXO

Specifications

Oscillator Specification		Sym	Condition	Min.	Value Typ.	Max.	Unit	Note
Operational Frequency		F _{nom}			40-200		MHz	
Standard frequencies				50, 60, 70, 72, 80, 100, 120, 125 & 150			MHz	
Symmetry				50 % ±5%				
Output load				10 pF Max.				
(LV)HCMOS	VOH			> 0.9 x Vcc				
, ,	VOL				< 0.1 x Vcc			
Power Supply Voltage		V _{cc}			3.30		V	Or 5.0V
Current Consumption						50	mA	
Electronic Frequ (EFC)	ency Control			$\Delta F > \pm 5$ ppm positive slope				
Control voltage				+1.50 V ±1.0 V +2.50 V ±2.0 V by 5.0 V				
Frequency Stat	oility							
Versus temperat	ture		-40°C to 85°C, ref to (fmax+fmin)/2	-1		+1	ppm	±0.5ppm on request
Tolerance at 25°C			·	0		+1.0	ppm	•
Versus ±5% change in supply voltage			Ref to frequency at nominal supply	-0. 05		+0.05	ppm	
Versus ±10% ch	ange in load		Ref to frequency at nominal load	-0.05		+0.05	ppm	
Sub harmonics					-80	-60	dBc	
First Year Aging			@40°C	-1.0		+1.0	ppm	
G Sensitivity				0.5 ppb/g per axis, Max. 0.25 ppb/g per axis, Typ on request				
			10 Hz		-78			
		100 Hz		-105				
Phase noise (typ.) @100MHz			1 KHz		-127		dBc/Hz	
			10 KHz		-150			
 		100 KHz	-	-178				
Short-Term Stab	•	ADEV	Tau = 1 second			1.0	E-10	
Environmental								
Operating tempe		-40°C to	0.85°C					
Storage tempera	ature range	-55°C to	0 105°C					
Reflow profiles a IPC/JEDEC J-ST		≤ 245 °(C over 10 s max.					