

Dynamic Engineers Inc.

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

TCXO914BTLG-125MHz-A-V

Low G Sensitivity, Vibration and Shock resistant, Ultra-low noise floor, Low jitter TCXO

Features and Benefits

Frequency range: 125MHz Supply voltage: 3.3V Steady current: 45mA Max Output waveform: Sinewave

Frequency stability vs. operating temperature: ±1.0ppm

Aging: ±1.0ppm per year

Phase noise@100KHz: -170dBc/Hz Operating temperature: -40°C to +85°C

Size: 11.4x9.6x6.5mm

Typical Applications

5G Repeater Link and micro cells Low noise microwave

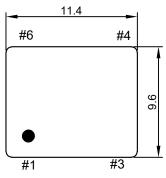
Description

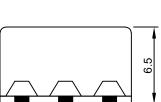
TCXO914BTLG-125MHz-A-V offers wide temperature operation from -40°C to +85°C with outstanding frequency stability and low phase noise performance.

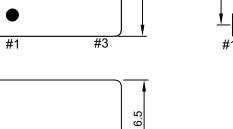
Mechanical Drawing & Pin Connections

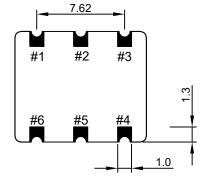
Drawing No:

MD230026-1









Solder Pattern

Pin Connection

#1	Control Voltage				
#2	N.C.				
#3	GND				
#4	Output				
#5	N.C.				
#6	Vcc				

Unit in mm 1mm = 0.0394 inches



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Specifications

Oscillator Specification	Sym	Condition	Min.	Value Typ.	Max.	Unit	Note		
Operational Frequency	F _{nom}		IVIIII.	125	IVIAX.	MHz			
Output Level			3	120	6	dBm			
Sinewave Output Load			<u> </u>	50	0	ohm			
Power Supply									
Voltage	V _{cc}			3.30		V			
Current Consumption		Without load			45	mA			
Frequency Control									
Electronic Frequency Control (EFC)			±5.0			ppm			
EFC Voltage			0.5	1.5	2.5	V			
Slope				Positive					
EFC Input Impedance			100			Kohm			
Frequency Stability									
Versus temperature		-40°C to +85°C, ref to (fmax+fmin)/2			±1.0	ppm			
Tolerance at +25°C			0		+1.0	ppm			
Versus ±5% change in supply voltage	,	Ref to frequency at nominal supply			±0.05	ppm			
Versus ±10% change in load		Ref to frequency at nominal load			±0.05	ppm			
Sub harmonics				-70	-65	dBc			
First Year Aging		@40°C			±1.0	ppm			
G Sensitivity		per axis		0.50		ppb/g			
Phase Noise		100 Hz		-105		dBc/Hz			
		1000 Hz		-128					
		10 KHz 100 KHz		-150 -170					
		100 KHz		-175					
Short-Term Stability	ADEV	Tau = 1 second		110	1.0	E-10			
RMS Phase Jitter		12KHz-20MHz		15		fs			
Environmental Conditions			I						
Operating temperature range	-40°C to	-40°C to +85°C							
Reflow profiles as per IPC/JEDEC J-STD-020C	≤ 245 °C	≤ 245 °C over 10 s max.							