

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

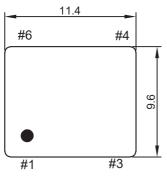
TCXO914BTLG-125MHz-A-V offers wide temperature operation from -40°C to +85°C with outstanding frequency stability and low phase noise performance.

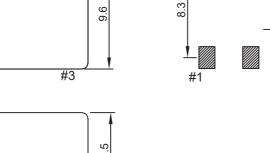
Solder Pattern

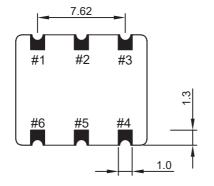
Mechanical Drawing & Pin Connections

Drawing No:

MD230026-1







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	Value			Heit	Mata
				Min.	Тур.	Max.	Unit	Note
Operational	Frequency	F _{nom}			125		MHz	
	Output Level			3		6	dBm	
	Output Load				50		ohm	
Power Sup	ply							
Voltage		V _{cc}			3.30		V	
Current Cor	nsumption		Without load			45	mA	
Frequency								
Electronic F (EFC)	requency Control			±5.0			ppm	
EFC Voltage	e			0.5	1.5	2.5	V	
Slope					Positive			
EFC Input I	mpedance			100			Kohm	
Frequency	Stability							
Versus temp	perature		-40°C to +85°C, ref to (fmax+fmin)/2			±1.0	ppm	
Tolerance a	t +25°C		,	0		+1.0	ppm	
Versus ±5% voltage	change in supply		Ref to frequency at nominal supply			±0.05	ppm	
	% change in load		Ref to frequency at nominal load			±0.05	ppm	
Sub harmor	nics				-70	-65	dBc	
First Year A	ging		@40°C			±1.0	ppm	
G Sensitivity	у		per axis		0.50		ppb/g	
			100 Hz		-105			
Phase Noise			1000 Hz		-128			
			10 KHz		-150		dBc/Hz	
			100 KHz		-170			
		1000 KHz		-175				
Short-Term	Stability	ADEV	Tau = 1 second			1.0	E-10	
RMS Phase	Jitter		12KHz-20MHz		15		fs	
	ntal Conditions							
	emperature range	-40°C to	+85°C					
Reflow profi	iles as per J-STD-020C	≤ 245 °C	over 10 s max.					