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

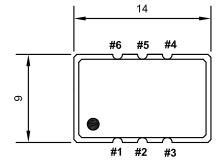
Typical Applications

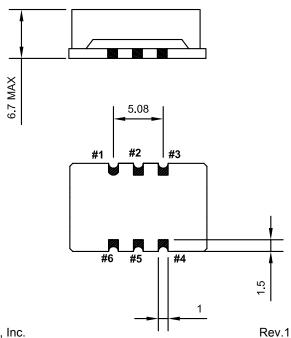
5G Repeater Link and micro cells Low noise microwave

Description

TCXO915BTLG_Sine offers wide temperature operation from -40°C to +85°C with outstanding frequency stability and low phase noise performance.

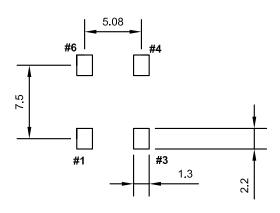
Mechanical Drawing & Pin Connections





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.

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

TCXO915BTLG_Sine

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				
Output				Sinewave						
Output power			3-6			dBm				
Output load			50			ohm				
Power Supply										
Voltage	V _{cc}			3.30		V	Or 5.0V			
Current Consumption					50	mA				
Electronic Frequency Control (EFC)			ΔF > ±	5 ppm positiv	e slope					
Control voltage			+1.50 V	±1.0 V +2.50 by 5.0 V	V ±2.0 V					
Frequency Stability										
Versus temperature		-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% change 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							
Phase noise (typ.) @100MHz		10 Hz		-78		dBc/Hz				
		100 Hz		-105						
		1 KHz		-127						
		10 KHz		-150						
		100 KHz	1	-178						
Short-Term Stability	ADEV	Tau = 1 second			1.0	E-10				
Environmental Conditions										
Operating temperature range		-40°C to 85°C								
Storage temperature range	-55°C t	-55°C to 105°C								
Reflow profiles as per IPC/JEDEC J-STD-020C	≤ 245 °	≤ 245 °C over 10 s max.								