

Dynamic Engineers Inc.

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Features and Benefits

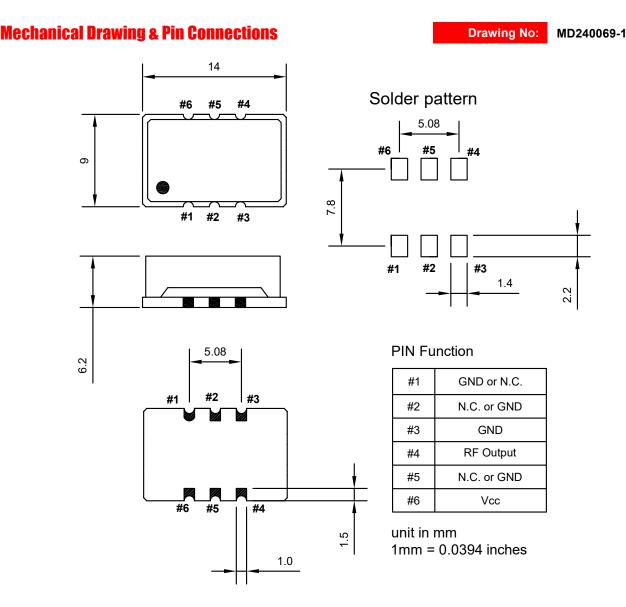
Frequency range: 100MHz Supply voltage: 3.3V Steady current: 28mA Max Output waveform: Sinewave Frequency stability vs. operating temperature: ±0.5ppm Aging: ±1.0ppm per year Phase noise@100KHz: -178dBc/Hz Operating temperature: -40°C to +85°C Size: 14x9x6.2mm Package type: SMD

Typical Applications

5G Repeater Link and micro cells Low noise microwave

Description

TCXO914BT-LG-100MHz-A-V offers wide temperature operation from -40°C to +85°C with outstanding frequency stability and low phase noise performance.



Dynamic Engineers, Inc.

Rev. 1

TCXO914BT-LG-100MHz-A-V Low G Sensitivity, Vibration and Shock resistant, Sinewave TCXO

3

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



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Oscillator		Sym	Condition	Value			Unit	Note	
Specification				Min.	Тур.	Max.			
Operational Frequency		Fnom			100	1	MHz		
Sinewave	Output Level			+4	50	-	dBm		
D	Output Load				50		ohm		
Power Sup	סוע	M		1	3.3		V		
Voltage		V _{cc}			3.3		v		
Current Consumption						28	mA		
Frequency	Stability								
Versus temperature			-40°C to +85°C, ref to (fmax+fmin)/2			±0.5	ppm		
Tolerance at +25°C						+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		
Harmonics						-30	dBc		
Sub-harmonics/Spurious						-60	dBc		
First Year Aging			@40°C			±1.0	ppm		
G Sensitivity			per axis		0.25		ppb/g		
Phase Noise			10 Hz			-85	dBc/Hz		
			100 Hz			-110			
			1 KHz			-132			
			10 KHz			-161			
			100 KHz			-178			
			1 MHz			-180			
Short-Term	Stability	ADEV	Tau = 1 second			1.0	E-10		
RMS Phase Jitter			12KHz-20MHz		30		fs		
	ntal Conditions						1I		
Operating temperature range		-40°C to +85°C							
Reflow profiles as per IPC/JEDEC J-STD-020C		≤ 245 °C	≤ 245 °C over 10 s max.						

Note: Unless otherwise specified conditions are @+25 °C

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