

Dynamic Engineers Inc.

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

Features and Benefits

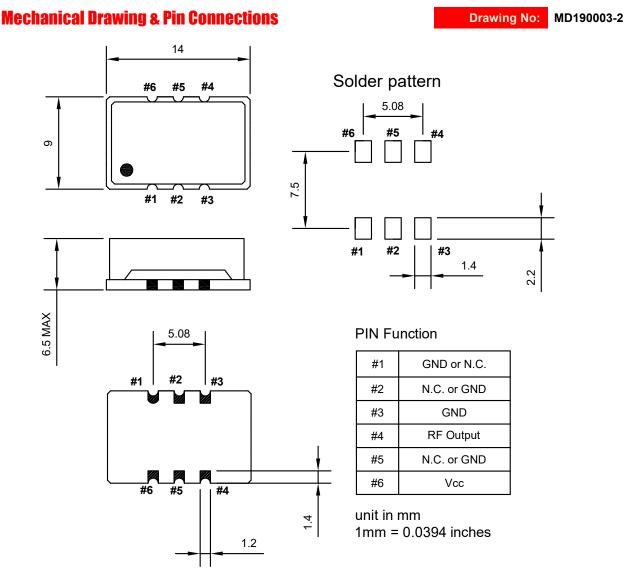
Frequency range: 100MHz Supply voltage: 3.3V Steady current: 28mA Max Output waveform: Sinewave Frequency stability vs. operating temperature: ±1.0ppm Aging: ±1.0ppm per year Phase noise@100KHz: -172dBc/Hz Operating temperature: -40°C to +85°C Size: 14x9x6.5mm

Typical Applications

5G Repeater Link and micro cells Low noise microwave

Description

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



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TCXO914BT-100MHz-A Š[, ÁÕÁÙ^}•ãaã;ãĉ ÉÁXãa ¦æaā; } Áæ) åÂÙ@(&& Á^•ã cæ) dÉÁ W[d æb][, Á][ã ^ Á][[¦ÊBŠ[, Áxǎæ \ Á/ÔÝU ÁÁÁ

Rev. 1 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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Specifications

Oscillator Specification		Sym	Condition	Value			11	Nete
				Min.	Тур.	Max.	Unit	Note
Operational Frequency		Fnom			100		MHz	
Sinewave	Output Level			4		7	dBm	
	Output Load				50		ohm	
Power Supp	oly							
Voltage		V _{cc}			3.30		V	
Current Consumption						28	mA	
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		0.25		ppb/g	
			10Hz		-80			
Phase noise (typ.) @100MHz			100 Hz		-105			
			1000 Hz		-127			
			10 KHz		-150		dBc/Hz	
			100 KHz		-172			
			1000 KHz		-175			
Short-Term	Stability	ADEV	Tau = 1 second			1.0	E-10	
Environmer	ntal Conditions					•		
Operating temperature range		-40°C to +85°C						
Storage temperature range		-55°C to +105°C						
Reflow profiles as per IPC/JEDEC J-STD-020C		≤ 245 °C over 10 s max.						

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