

Dynamic Engineers Inc.

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

TCXO914BT-100MHz-A

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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: ±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

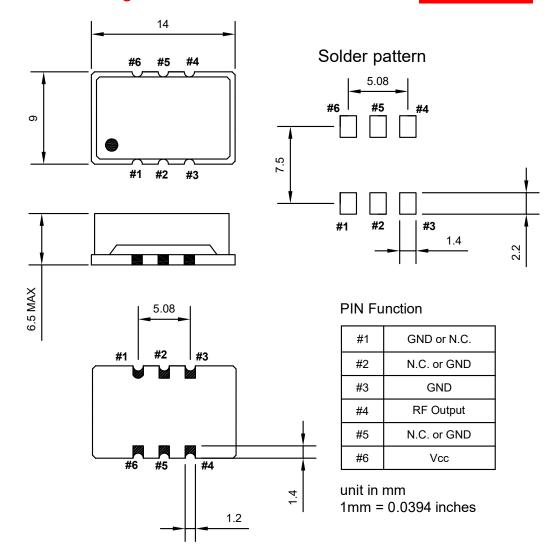
Description

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

Mechanical Drawing & Pin Connections

Drawing No:

MD190003-2





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Specifications

Oscillator Specification		Sym	Condition	Value			Unit	Note	
				Min.	Тур.	Max.	Onit	Note	
Operational Frequency		F_{nom}			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		
Phase noise (typ.) @100MHz			10Hz		-80				
			100 Hz		-105		dBc/Hz		
			1000 Hz		-127				
			10 KHz		-150				
			100 KHz		-172				
			1000 KHz		-175				
Short-Term	Stability	ADEV	Tau = 1 second			1.0	E-10		
	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	≤ 245 °C over 10 s max.						