Dynamic Engineers Inc.

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

TCXO1811BE_Sine

14 PIN DIP Package Sinewave TCXO

Features and Benefits

Frequency range: 6-190MHz Supply voltage: 3.3V or 5.0V Steady current: 12-30mA Max Output waveform: Sinewave

Frequency stability vs. operating temperature: ±0.5ppm

Aging: ±1.0ppm per year

Phase noise@100KHz: -145dBc/Hz Operating temperature: -40°C to +85°C

Size: 18.3x11.7x7.0mm

Typical Applications

UHF Synthesizers SATCOM System Portable Microwave Applications

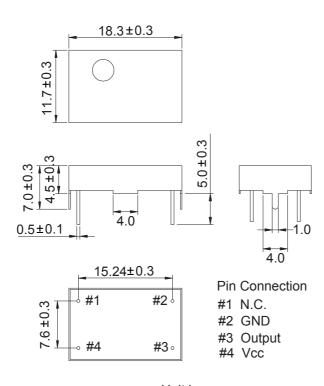
Description

TCXO1811BE_Sine offers wide temperature operation with outstanding frequency stability and low phase noise performance.

Mechanical Drawing & Pin Connections

Drawing No:

MD230003-1



Unit in mm 1mm = 0.0394 inches



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Specifications

Oscillator	Cress	Sym Condition		Value		Unit	Note
Specification Sym	Condition	Min.	Typ.	Max.			
Frequency Range	F _{nom}		6		190	MHz	
RF Output							
Signal Waveform					Sinewave		
Level		Vcc=5V		10		dBm	
		Vcc=3.3V		0		dBm	
Load				50		ohm	
Power Supply				<u>, , , , , , , , , , , , , , , , , , , </u>			<u>. </u>
Supply Voltage	V _{cc}	±5%		5.0		V	
	▼ CC	±5%		3.3			
Input Current		6MHz			12	mA	
		190MHz			30	mA	
Frequency Adjustment Range				<u> </u>			
Frequency Adjustment		by internal trimmer	±3.0			ppm	
Frequency Stability				<u>, , , , , , , , , , , , , , , , , , , </u>			<u>. </u>
Versus Operating Temperature			±0.5		±5.0	ppm	See ordering information
Versus supply voltage		±5% change			±0.2	ppm	
Versus Load		15pF±10%			±0.2	ppm	
Aging 1 st Year					±1.0	ppm	
		10Hz		-80		dBc/Hz	
		100Hz		-120		dBc/Hz	
SSB Phase noise (20MHz)		1kHz		-135		dBc/Hz	
		10kHz		-140		dBc/Hz	
		100kHz		-145		dBc/Hz	
Environmental, Mechanical Conditio							
Operating temperature range		See ordering information					
Storage temperature range		-55°C to +125°C					
Shock		MIL-STD-883C, Method 2002, Condition B					
Solderability		MIL-STD-883C, Method 2003					
Seal integrity		MIL-STD-883C, Method 1014, Condition C & A2					
Vibration		MIL-STD-883C, Method 2007, Condition A					
Marking	MIL-STD-2	MIL-STD-202F, Method 215					



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Ordering Information

TCXO1811BE_Sine	-	10MHz	ı	Х	Х	Х
Group				01	02	03

For example, TCXO1811BE_Sine-10MHz-1-1-2 denotes the TCXO has the following specifications:

Temperature Range: 0°C to +50°C Stability Over Temperature: ±0.5ppm Supply Voltage: 5V Frequency: 10MHz

01	Temperature Range		
Code	Specification		
1	0°C to +50°C		
2	-10°C to +60°C		
3	-20°C to +70°C		
4	-30°C to +75°C		
5	-40°C to +80°C		
6	-40°C to +85°C		

02	Stability		
Code	Specification		
1	±0.5ppm		
2	±1.0ppm		
3	±1.5ppm		
4	±2.0ppm		
5	±2.5ppm		
6	±3.0ppm		
7	±3.5ppm		
8	±5.0ppm		

03	Supply Voltage
Code	Specification
1	3.3V
2	5V