Features and Benefits

Frequency range: 10-50MHz Supply voltage: 3.3V or 5.0V Steady current: 12-20mA 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: 11.4x9.6x4.5mm

Typical Applications

UHF Synthesizers SATCOM System Portable Microwave Applications

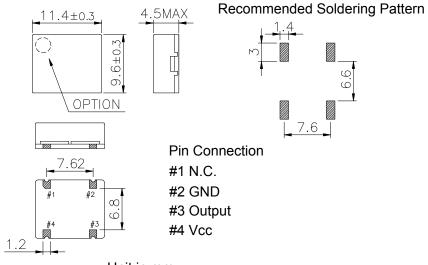
Description

TCXO1196BE_Sine offers wide temperature operation with outstanding frequency stability and low phase noise performance.

Mechanical Drawing & Pin Connections

Drawing No:

A 8 &\$\$\$) \$!%



Unit in mm 1mm = 0.0394 inches

Dynamic Engineers Inc.

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

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Specifications

Oscillator	Sum	Condition	Value			Unit Note		
Specification	Sym	Condition	Min.	Тур.	Max.			
Frequency Range	F _{nom}		10		50	MHz		
RF Output								
Signal Waveform					Sinewave			
Level		Vcc=5V		10		dBm		
		Vcc=3.3V		0		dBm		
Load				50		ohm		
Power Supply								
Supply Voltage	V	±5%		5.0		V		
	V _{cc}	±5%		3.3				
		at +25°C to Δf/f=1e-8		120		sec		
Input Current		10MHz			12	mA		
input Current		20MHz			20	mA		
Frequency Adjustment Range								
Frequency Adjustment				n min by mer (OP		ppm		
Frequency Stability								
Versus Operating Temperature Range			±0.5		±5.0	ppm	See ordering information	
Versus supply voltage		±5% change	±0.1		±0.2	ppm		
Versus Load		±10% change,15pF load			±0.2	ppm		
Aging 1 st Year					±1.0	ppm		
SSB Phase noise (20MHz)		10Hz		-80		dBc/Hz		
		100Hz		-120		dBc/Hz		
		1kHz		-135		dBc/Hz		
		10kHz		-140		dBc/Hz		
		100kHz		-145		dBc/Hz		
Environmental, Mechanical Conditions								
Operating temperature range		ing 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-	202F, Method 215						

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Ordering Information

TCXO1196BE_Sine	-	10MHz	-	Х	Х	Х	Х
Group				01	02	03	04

For example, TCXO1196BE_Sine-10MHz-1-1-2-2 denotes the TCXO has the following specifications:

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

Trimmer: With Trimmer

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	Spec
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

04	Trimmer
Code	Specification
1	Without Trimmer
2	With Trimmer