Dynamic Engineers Inc.

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

TCXO1811BE_PECL 14 PIN DIP Package PECL TCXO

Features and Benefits

Frequency range: 0.75-800MHz Supply voltage: 3.3V or 5.0V Steady current: 25-100mA Max Output waveform: PECL

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

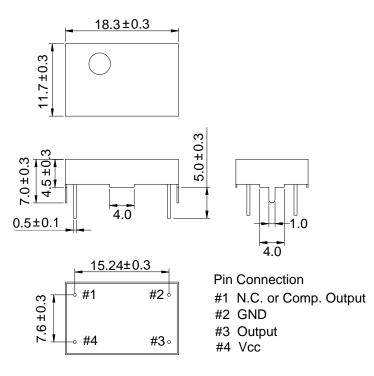
Description

TCXO1811BE_PECL offers wide temperature operation with outstanding frequency stability and low phase noise performance.

Mechanical Drawing & Pin Connections

Drawing No:

MD23000(-1



Unit in mm 1mm = 0.0394 inches



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Specifications

Oscillator	Sym Condition	Value			Unit	Note	
Specification	Sylli	Condition	Min.	Тур.	Max.		
Frequency Range	F _{nom}		0.75		800	MHz	
RF Output							
Signal Waveform					PECL		
High Level Logic 1			Vcc-1.02	5		V	
Low Level Logic 0					Vcc-1.62	V	
Duty Cycle		±5%		50		%	
Rise Time					1	nS	
Fall Time			1			nS	
Differential Output				od (LVD			
Offset Voltage			\	os (LVD	S)		
Power Supply							
Supply Voltage	V _{cc}	±5%		5.0		V	
Supply Voltage	V cc	±5%		3.3		V	
Input Current		24MHz			25	mA	
input Current		800MHz			100	mA	
Frequency Adjustment Range							
Frequency Adjustment		by internal trimmer	±3.0			ppm	
Frequency Stability							
Versus Operating Temperature			±0.5		±5.0	ppm	See ordering information
Versus supply voltage		±5% change	±0.1		±0.3	ppm	
Versus Load		15pF±10%			±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 +						
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

TCXO1811BE_PECL	-	10MHz	ı	Х	Χ	Х
Group				01	02	03

For example, TCXO1811BE_PECL-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