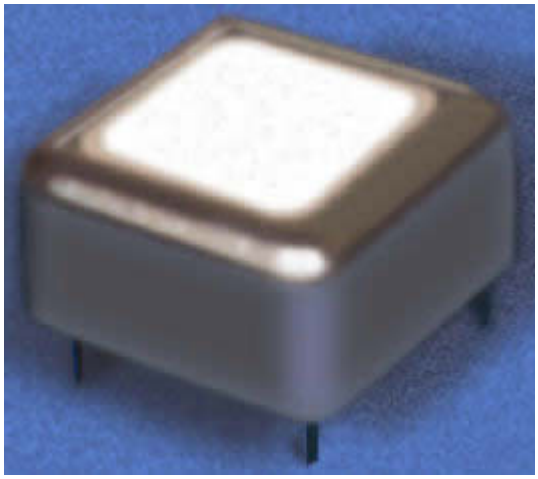
TCXOB1000ET
TCXO

Features

Frequency Range 20 to 120 MHz
Robust leaded package
Vibration Resistant 4-point Crystal Mount
Frequency Stability of +/- 5 PPM
Temperature Range (-55C to 125C)

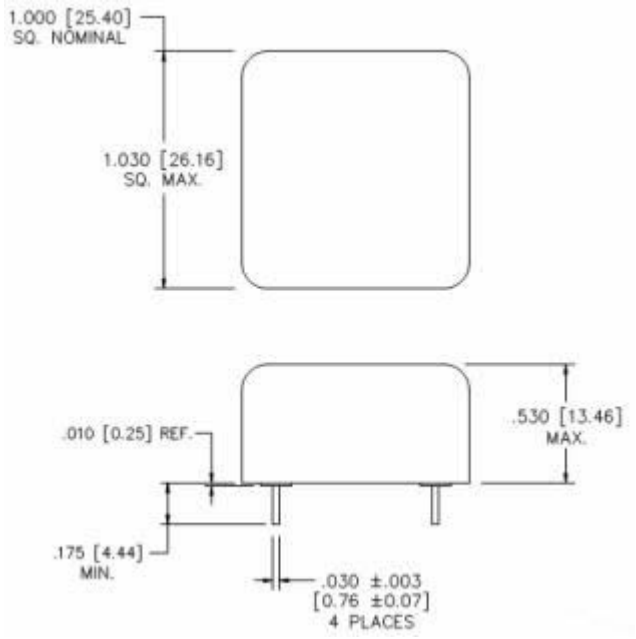
Picture of Part

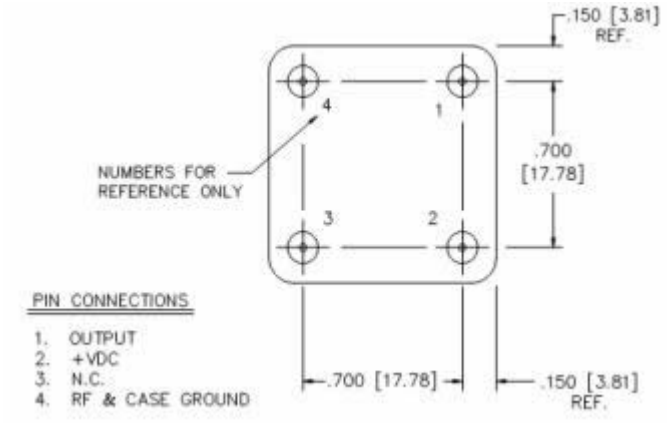


Description

The TCXOB1000ET represents a focused design platform clock reference for harsh extended temperature range environments. The TCXO crystal is mounted at 4-points within its enclosure to provide for increased tolerance to shock and vibration. Tight crystal angle process controls enables the oscillator to attain +/- 5 PPM from -55C to 125C.

Physical Dimensions & Pin Connections





Specification

TCXO Specification		Sym.	Condition	Value			Unit	Note
				Min.	Typ.	Max.		
Operational Frequency Range		f_0		20		120	MHz	
HCMOS compatible option	Load					15	pF	
	H - level voltage	V_H		4.5			V	
	L - level voltage	V_L				0.4	V	
	Rise & Fall time					5.0	ns	
	Duty cycle			40	50	60	%	
Sine-wave option	Level	L		7.0			dBm	
	Harmonics					-30	dBc	
	Spurious					-60	dBc	
Power supply								
Voltage		V_{CC}		11.4	12.0	12.6	V	
Current consumption		Icc				40	mA	
Frequency stability								
vs. temperature			-55°C to +125°C, ref 25°C	-5.0		+5.0	PPM	
Aging	Per Year		Projected aging after 30 days operation			+/- 1	PPM	
	Per 5 Years					+/- 5	PPM	

Environmental, mechanical conditions.	
Operating temperature range	**-55°C to +125°C maximum range available that is standard**
Storage temperature range	**-55°C to +125°C**
Mechanical shock	Per MIL-STD 202 , Method 213B, Condition C
Sine Vibration	Per MIL-STD 202 , Method 204D, Condition A
Random Vibration	Per MIL-STD 810G , Method 514.6, Procedure 1

Ordering Information

TCXOB1000ET-XXX.XXXXXX-Z

1. Field " XXX.XXXXXX " is the Output Frequency to six decimals in MHz
2. Field " Z " is sine wave output versus square wave output
    a. " 0 " for sine wave output
    b. " 1 " for square wave output

Part Number Example

TCXOB1000ET-100.000000-1

100.000000 MHz Operating Frequency

Square wave output

Performance Graph