



Features and Benefits

Frequency range: 12.8MHz
Supply voltage: 5.0V
Steady current: 2mA Max
Output waveform: Clipped Sinewave
Frequency stability vs. operating temperature: ± 1.5 ppm
Aging: ± 1.0 ppm per year
Phase noise@100KHz: -150dBc/Hz
Operating temperature: -40°C to +85°C
Size: 11.4x9.6x1.85mm

Typical Applications

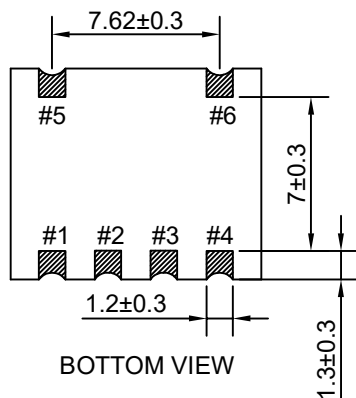
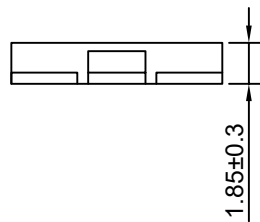
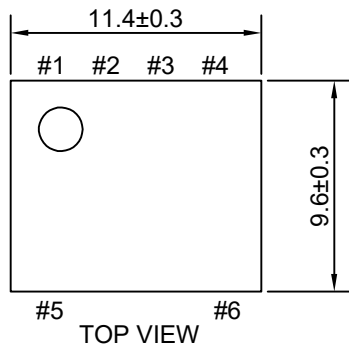
UHF Synthesizers
SATCOM System
Portable Microwave Applications

Description

TCXO1196BE-12.8MHz-A offers wide temperature operation with outstanding frequency stability and low phase noise performance.

Mechanical Drawing & Pin Connections

Drawing No: MD240051-1



Pin Connections

Pin	Function
1	Supply Voltage
2	N.C. or V.C.
3	GND
4	Output
5	GND
6	GND

Unit in mm
1mm = 0.0394 inches



Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Frequency	F _{nom}			12.8		MHz	
RF Output							
Signal Waveform			Clipped Sinewave				
Level			0.8			Vp-p	
Load			20kohms//5pF				
Power Supply							
Supply Voltage	V _{cc}	±5%		5.0		V	
Input Current					2.0	mA	
Frequency Adjustment Range							
Frequency Adjustment			±3ppm min by internal trimmer			ppm	
Frequency Stability							
Versus Operating Temperature Range		-40°C to +85°C			±1.5	ppm	
Tolerance		at +25°C			±1.0	ppm	
Versus supply voltage		±5% change			±0.2	ppm	
Versus Load		±10% change			±0.2	ppm	
Aging 1 st Year					±1.0	ppm	
Frequency Perturbation		per every 2 °C			0.5	ppm	
Hysteresis					±0.4	ppm	
G-sensitivity					2.0	ppb/g	
Phase noise		1Hz			-55	dBc/Hz	
		10Hz			-85	dBc/Hz	
		100Hz			-115	dBc/Hz	
		1kHz			-135	dBc/Hz	
		10kHz			-145	dBc/Hz	
		100kHz			-150	dBc/Hz	
Environmental, Mechanical Conditions							
Operating temperature range		-40°C to +85°C					
Storage temperature range		-40°C to +85°C					