



## Features and Benefits

Frequency range: 9.6MHz

Supply voltage: 5V

Steady current: 5mA Max

Output waveform: Clipped sine

Frequency stability vs. operating temperature:  $\pm 0.25$ ppm

Aging:  $\pm 1.0$ ppm per year

Operating temperature:  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$

Size: 19.8x11.5x5.5mm

## Typical Applications

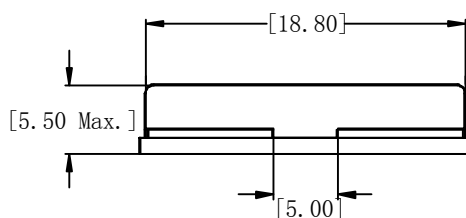
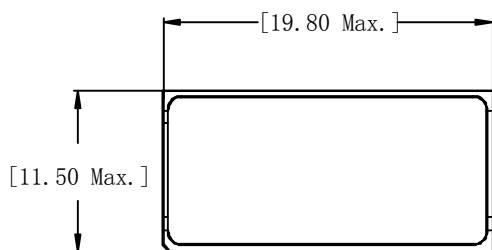
UHF Synthesizers

SATCOM System

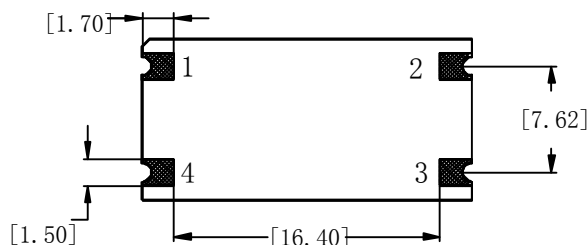
Portable Microwave Applications

## Mechanical Drawing & Pin Connections

Drawing No: MD220001-1



PIN	Connection
1	Control Voltage
2	Ground
3	Output
4	Vcc





## Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency	f <sub>0</sub>			9.6		MHz	
RF Output							
Output Waveform			Clipped sinewave				
Output Level		Industry standard	1.0			Vp-p	
Output Impedance			10Kohm//10pF				±10%
Power Supply							
Voltage	V <sub>cc</sub>	±5%		5.0		V	
Current					5	mA	
Frequency Control							
Control Voltage Range			0.6	2.1	3.6	V	
Pulling Range			±5			ppm	
Slop			Positive Slope				
Frequency Stability							
Vs. Temperature		-40°C to +85°C			±0.25	ppm	
Vs. Supply Voltage		±5%			±0.2	ppm	
Vs. Load		±10%			±0.2	ppm	
Vs. Aging		1 <sup>st</sup> year			±1.0	ppm	
Phase noise		@ 1KHz		-135		dBc/Hz	
		@ 10KHz		-145		dBc/Hz	
		@ 100KHz		-148		dBc/Hz	
Environmental Conditions							
Operating temperature range		-40°C to +85°C					