



**Features and Benefits**

- Frequency range: 28MHz
- Supply voltage: 5.0V
- Steady current: 3mA Max
- Output waveform: Clipped Sinewave
- Frequency stability vs. operating temperature: ±1.5ppm
- Aging: ±1.0ppm per year
- Phase noise@10KHz: -150dBc/Hz
- Operating temperature: -40°C to +85°C
- Size: 21.3x11.7x4.5mm

**Typical Applications**

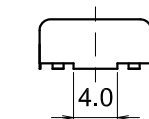
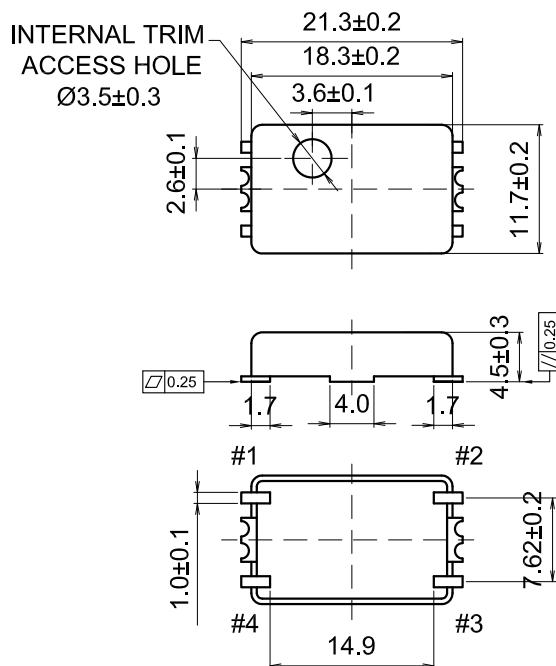
- UHF Synthesizers
- SATCOM System
- Portable Microwave Applications

**Description**

TCXO1811S-28MHz offers wide temperature operation with outstanding frequency stability and low phase noise performance.

**Mechanical Drawing & Pin Connections**

**Drawing No: MD240049-1**



- PIN CONNECTOR**
- #1 V.C or N.C
  - #2 GND
  - #3 OUTPUT
  - #4 Vcc

Unit in mm  
1mm = 0.0394 inches



**Specifications**

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Frequency Range	F <sub>nom</sub>			28		MHz	
<b>RF Output</b>							
Signal Waveform			Clipped Sinewave				
Output Level			1			Vp-p	
Load			10Kohm//10pF				
<b>Power Supply</b>							
Supply Voltage	V <sub>cc</sub>			5.0		V	
Input Current					3	mA	
<b>Frequency Adjustment Range</b>							
Frequency Adjustment			±3ppm min by internal trimmer			ppm	
<b>Frequency Stability</b>							
Versus Operating Temperature Range					±1.5	ppm	
Versus supply voltage		±5% change			±0.2	ppm	
Versus Load		10Kohm//10pF±10%			±0.2	ppm	
Tolerance		+25±2°C			±1.0	ppm	
Aging 1 <sup>st</sup> Year					±1.0	ppm	
Phase noise		100Hz			-120	dBc/Hz	
		1kHz			-140	dBc/Hz	
		10kHz			-150	dBc/Hz	
<b>Environmental, Mechanical Conditions</b>							
Operating temperature range		-40°C to +85°C					
Storage temperature range		-55°C to +125°C					