



### Features and Benefits

Frequency range: 200MHz  
Supply voltage: 3.3V  
Steady current: 35mA Max  
Output waveform: HCMOS  
Frequency stability vs. operating temperature: ±1ppm  
Aging: ±1.0ppm per year  
Operating temperature: -10°C to +85°C  
Size: 14.3x8.7x5.5mm

### Typical Applications

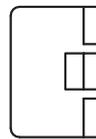
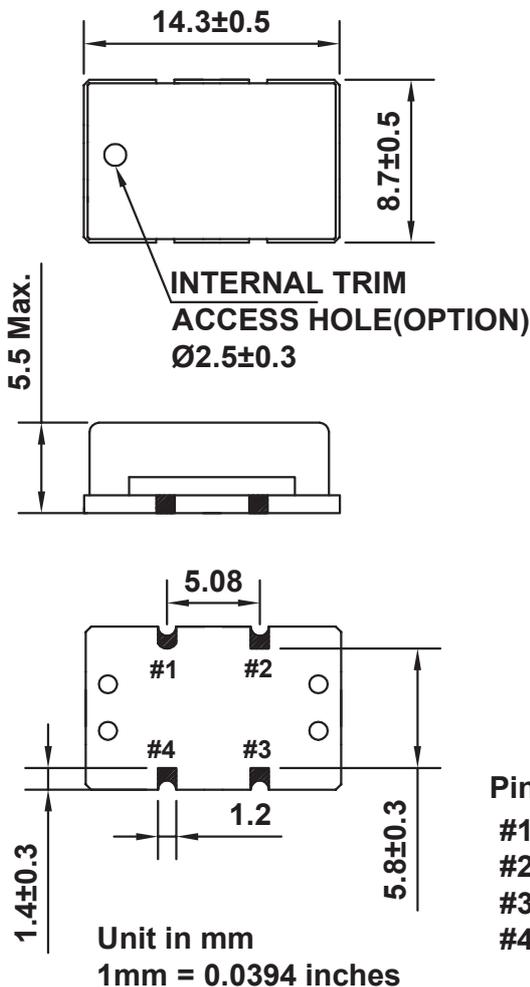
UHF Synthesizers  
SATCOM System  
Portable Microwave Applications

### Description

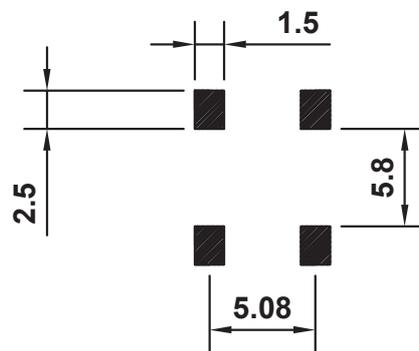
TCXO914BE-200MHz-A-V is the high frequency HCMOS output TCXO. The frequency stability can less than ±1.0PPM from -10°C to +85°C operating temperature. It can be widely used in the portable communication device.

### Mechanical Drawing & Pin Connections

Drawing No: MD150099-3



### Recommended Solder Pattern



### Pin Connections:

- #1. V.C
- #2. GND
- #3. OUTPUT
- #4. Vcc



**Specifications**

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency	f <sub>0</sub>			200		MHz	
<b>RF Output</b>							
Output Waveform			HCMOS				
Load				15		pF	
Duty Cycle			45		55	%	
Rise & Fall Time					1	ns	
<b>Power Supply</b>							
Voltage	V <sub>cc</sub>	±5%		3.3		V	
Current					35	mA	
<b>Control Voltage</b>							
Control Voltage		±5%	0.15	1.65	3.15	V	
Frequency Deviation			±5			ppm	
Linearity					10	%	
Frequency adjustment by Trimmer			±3			ppm	
<b>Frequency Stability</b>							
Vs. Temperature		-10°C to +85°C			±1.0	ppm	
Vs. Supply Voltage		V <sub>cc</sub> ±5%			±0.3	ppm	
Vs. Load		15pF ±10%			±0.2	ppm	
Vs. Aging		Per year			±1.0	ppm	
Phase Noise		@100Hz		-100		dBc/Hz	
		@1KHz		-130			
		@10KHz		-140			
		@100KHz		-150			
<b>Environmental Conditions</b>							
Operating temperature range		-10°C to +85°C					
Storage temperature range		-40°C to +90 °C					