



Features and Benefits

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

Typical Applications

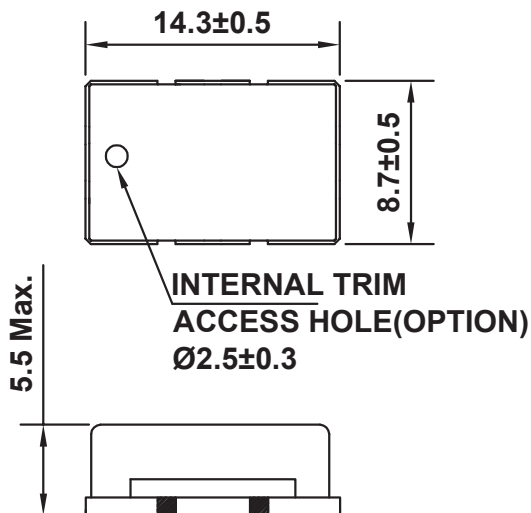
UHF Synthesizers
SATCOM System
Portable Microwave Applications

Description

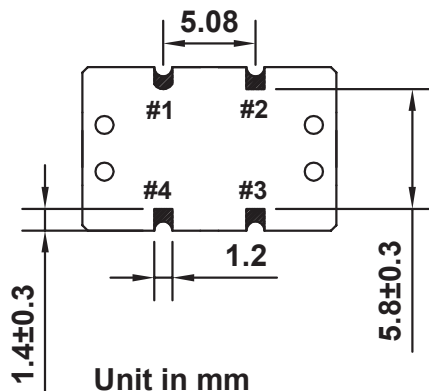
TCXO914BE-200MHz-A-V is the high frequency HCMOS output TCXO. The frequency stability can less than ± 1.0 PPM from -10°C to $+85^{\circ}\text{C}$ operating temperature. It can be widely used in the portable communication device.

Mechanical Drawing & Pin Connections

Drawing No: MD150099-3



Recommended Solder Pattern



Unit in mm
1mm = 0.0394 inches

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 ₀			200		MHz	
RF Output							
Output Waveform			HCMOS				
Load				15		pF	
Duty Cycle			45		55	%	
Rise & Fall Time					1	ns	
Power Supply							
Voltage	V _{cc}	±5%		3.3		V	
Current					35	mA	
Control Voltage							
Control Voltage		±5%	0.15	1.65	3.15	V	
Frequency Deviation			±5			ppm	
Linearity					10	%	
Frequency adjustment by Trimmer			±3			ppm	
Frequency Stability							
Vs. Temperature		-10°C to +85°C			±1.0	ppm	
Vs. Supply Voltage		V _{cc} ±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			
Environmental Conditions							
Operating temperature range		-10°C to +85°C					
Storage temperature range		-40°C to +90 °C					