



Features and Benefits

Frequency range: 32.768KHz
Supply voltage: 3.3V
Steady current: 20-40uA
Output waveform: CMOS
Frequency stability vs. operating temperature: ±175PPM
Operating temperature: -55°C to +200°C
Size: 7.2x5.2x2.16mm

Typical Applications

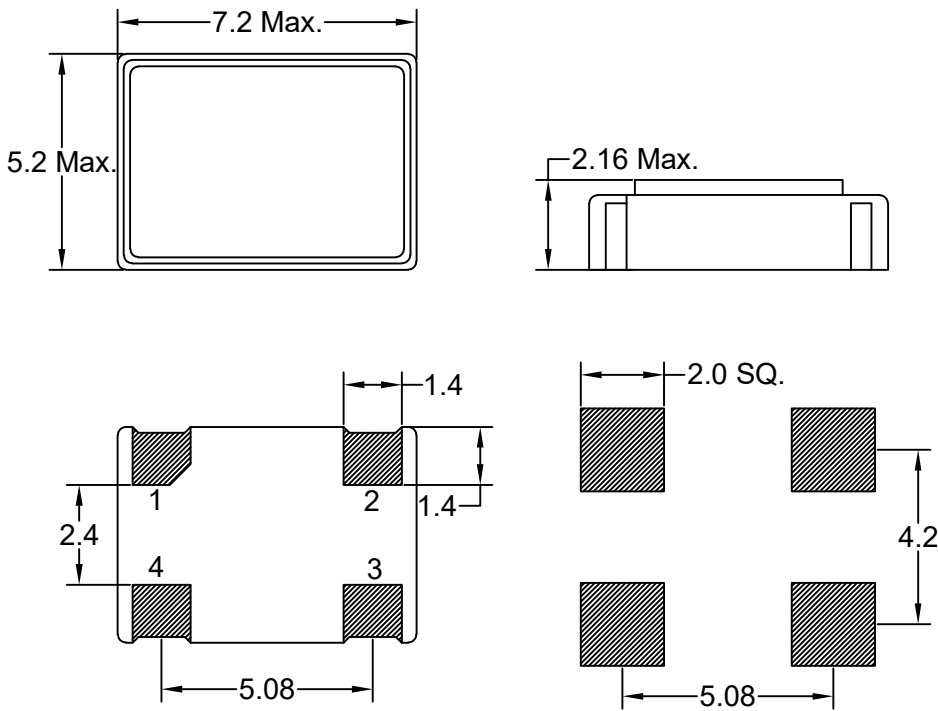
SatCom
Test equipment
Network clock
Base station

Description

The XO7500BC-HT-32.768KHz-A is designed for applications where exceptional frequency stability and timing is required. It has both excellent temperature performance and short-term stability. These characteristics make it an excellent choice for timing applications.

Mechanical Drawing & Pin Connections

Drawing No: MD240005-1



PIN#	Function
#1	Output Enable
#2	GND
#3	Output
#4	Supply Voltage

Unit in mm
1mm = 0.0394 inches

Recommended Land Pattern



Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Frequency Range	F _{nom}		32.768			KHz	
RF Output							
Signal Waveform			CMOS				
Load			15			pF	
Power Supply							
Voltage Supply	V _{cc}	+/-10%		3.3		V	
Current (3.3V & at +25°C)			20 µA (<10 µA in disabled mode)				
Current (3.3V & at +200°C)			40 µA (<10 µA in disabled mode)				
Oscillator Enable			Open or Logic "1"				
Frequency Stability							
Versus Temperature		-40°C to +200°C		±175		ppm	
Environmental, Mechanical Conditions							
Operation Temperature	-55°C to + 200°C						
Storage Temperature	+ 225°C						
Operation Life	1000 Hours at +200°C min						