



Features and Benefits

- 18.432MHz Frequency
- 3.3V Supply voltage
- CMOS Output waveform
- ±1.0ppm Stability Vs -40°C to +85°C
- 3.2x2.5x1.0mm Size

Typical Applications

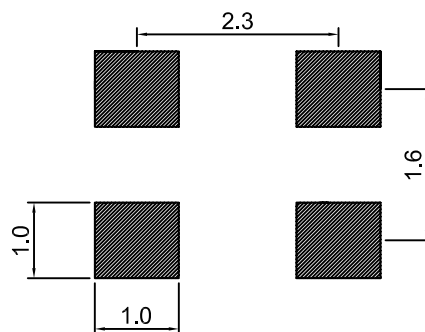
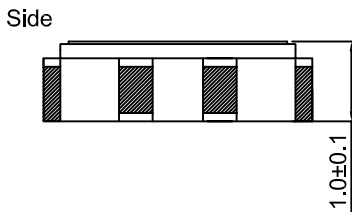
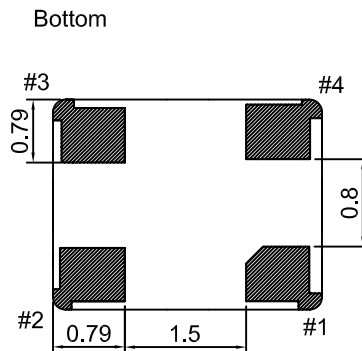
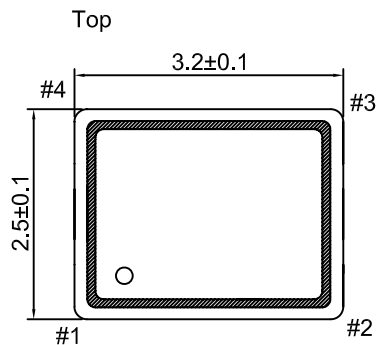
- SATCOM System
- Cellular Base Stations
- Radar Applications

Description

TCXO3225AJ-18.432MHz-A are 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: MD1*001%(



Pin Connections

Pin	Function
1	N.C.
2	GND
3	RF Output
4	Supply Voltage

Unit in mm
 1mm = 0.0394 inches

Recommended soldering pattern



Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency	F _{nom}			18.432		MHz	
RF Output							
Signal Waveform			CMOS				
Load	R _L		15pf				
H-Level Voltage	V _H		2.97			V	
L- Level Voltage	V _L				0.33	V	
Start-Up Time		reach 90% amplitude and at+25°C ± 2°C		5.0	10.0	msec	
Power Supply							
Supply Voltage	V _{cc}	±5%		3.3		V	
Current					6	mA	
Frequency Stability							
Versus Operating Temperature Range		-40°C to +85°C			±1.0	ppm	
Nominal Frequency Tolerance		at+25°C ± 2°C			±2.0	ppm	
Versus supply voltage		for a ± 5% input voltage change			±0.3	ppm	
Versus load voltage		for a ± 10% load condition change			±0.3	ppm	
Aging 1 st Year		+25°C			±1.0	ppm	
Phase Noise		10Hz		-90		dBc/Hz	
		100Hz		-115		dBc/Hz	
		1KHz		-131		dBc/Hz	
		10KHz		-138		dBc/Hz	
		100KHz		-143		dBc/Hz	
Environmental, Mechanical Conditions							
Operating temperature range		-40°C to +85°C					