



Features and Benefits

Frequency range: 13MHz
Supply voltage: 3.3V
Steady current: 1.5mA/Max
Output waveform: Clipped sine wave
Frequency stability vs. operating temperature: ±2ppm
Aging: ±1ppm per year
Phase noise@100KHz: -105dBc/Hz
Operating temperature: -30°C to +75°C
Size: 3.2x2.5x0.9mm

Typical Applications

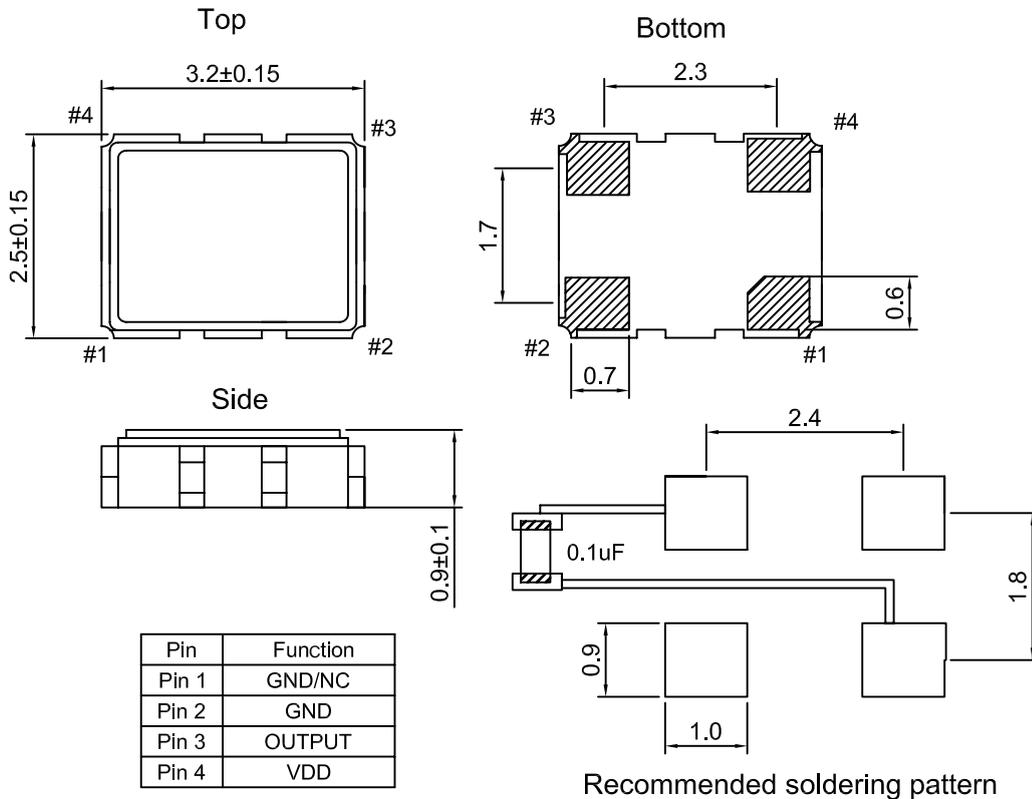
Wireless communication devices

Description

TCXO3225CK-13MHz-A offers low phase noise, all in a compact package to suit the different communication needs.

Mechanical Drawing & Pin Connections

Drawing No: MD160011-1



Pin	Function
Pin 1	GND/NC
Pin 2	GND
Pin 3	OUTPUT
Pin 4	VDD

Unit in mm
1mm = 0.0394 inches



Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency	F _{nom}			13		MHz	
RF Output							
Signal Waveform		DC coupled clipped sine wave	Clipped sine wave				
Output voltage level			0.8		2.0	Vp-p	
Output load			10kohm//10pF				
Power Supply							
Supply Voltage	V _s		3.15	3.3	3.45	V	
Start-up Time					2.0	ms	
Current Consumption		At maximum supply voltage			1.5	mA	
Frequency Stability							
Nominal Frequency Tolerance		Frequency at 25°C, 1hour after reflow	-2.5		+2.5	ppm	
Vs Temperature		Referenced to the frequency at 25°C	-2.0		+2.0	ppm	
Vs Load		±10%	-0.2		+0.2	ppm	
Vs Supply Voltage		±5.263% at +25°C	-0.1		+0.1	ppm	
Aging 1 st Year		at 25°C	-1.0		+1.0	ppm	
SSB Phase noise		1Hz		-50		dBc/Hz	
		10Hz		-80		dBc/Hz	
		100Hz		-105		dBc/Hz	
		1kHz		-130		dBc/Hz	
		10kHz		-145		dBc/Hz	
Environmental, Mechanical Conditions							
Operating temperature range			-30°C to +75°C				
Storage temperature range			-55°C to +125°C				