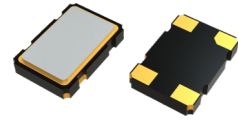


2.5 x2.0 mm SMD Voltage Controlled Temperature Compensated Crystal Oscillator

Feature

- Typical 2.5 x 2.0 x 0.7 mm SMD package.
- Compactness and lightweight
- VCTCXO available
- Low thickness



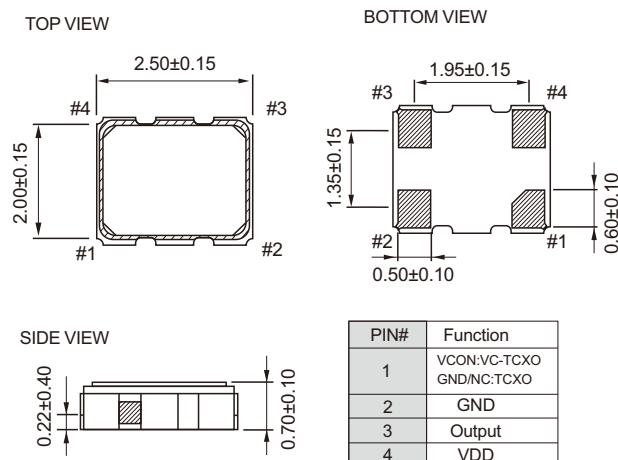
Electrical Specifications

Parameter	3.3/3.0/2.8V		2.5V		1.8V		Unit
	Min.	Max.	Min.	Max.	Min.	Max.	
Supply Voltage Variation	2.66	3.465	2.375	2.625	1.71	1.89	V
Frequency Range	10	52	10	52	10	52	MHz
Standard Frequency	16.369, 19.2, 26, 38.4						MHz
Frequency Tolerance*	-	±2.0	-	±2.0	-	±2.0	ppm
Frequency stability	VS Supply V(±5%) change	-	±0.2	-	±0.2	-	±0.2
	VS Load(±10%) change	-	±0.2	-	±0.2	-	±0.2
	VS Aging(@1 st year)	-	±1.0	-	±1.0	-	±1.0
Supply Current	10MHz ≤ FO < 26MHz	-	1.5	-	1.5	-	1.5
	26 MHz ≤ FO < 52MHz	-	2.0	-	2.0	-	2.0
Output Level (Clipped sine wave)	0.8	-	0.8	-	0.8	-	V _{p-p}
Load	10kΩ//10pF		10kΩ//10pF		10kΩ//10pF		
Control Voltage Range(VCTCXO)	0.5	2.5	0.4	2.4	0.3	1.5	V
Pulling Range (VCTCXO)	±5	-	±5	-	±5	-	ppm
Vc Input Impedance(VCTCXO)	500	-	500	-	500	-	kΩ
Phase Noise @19.2MHz	100Hz	-115	-115	-115	-115	-115	dBc/Hz
	1KHz	-135	-135	-135	-135	-135	
	10KHz	-148	-148	-148	-148	-148	
Start Time	-	2	-	2	-	2	mSec
Storage Temp. Range	-55	125	-55	125	-55	125	°C

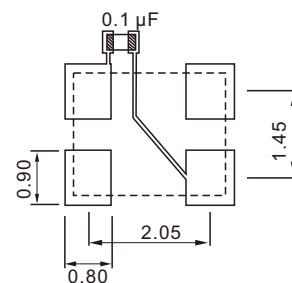
Standard frequencies are frequencies which the crystal has been designed and does not imply a stock position

*. Frequency at 25°C, 1 hour after reflow.

Dimension(mm)



Solder Pad Layout(mm)



To ensure optimal oscillator performance, place a by-pass capacitor of 0.1 μF as close to the part as possible between Vdd and GND pads.

FREQ. STABILITY vs. TEMP. RANGE

ppm Temp. (°C)	±0.5	±1.0	±1.5	±2.0	±2.5
-20 ~ +70	○	○	○	○	○
-30 ~ +85	○	○	○	○	○
-40 ~ +85	○	○	○	○	○

○: Available △: Conditional X: Not available