

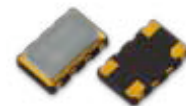
Features

Operational Voltage: 2.5, 3.0V
 Compact & Lightweight
 Low Power Consumption
 External DC-Cut capacitor required (NPO 150pF advised)
RoHS Compliant Product

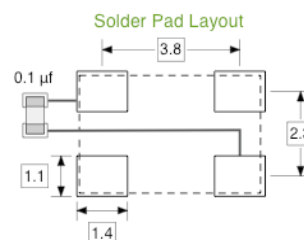
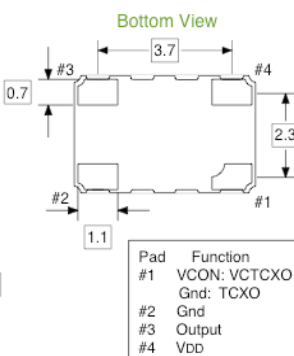
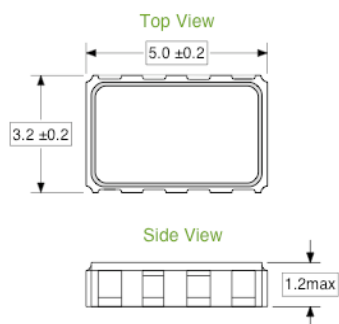
Voltage Controlled Temperature Compensated Crystal Oscillator (VCTCXO) 5.0 x 3.2 x 1.15mm Ceramic SMD 10MHz – 40MHz

Typical Applications

Mobile Phone, GPS
 WiMAX, WLAN
 Telecommunications



Outlines & Dimensions (mm)



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

Electrical Specifications

Parameter	Clipped Sine Wave				Unit
	5.0V		2.8V		
	Min	Max	Min	Max	
Supply Voltage Variation (V _{DD}) 5%	4.75	5.25	2.66	2.94	V
Frequency Range	10	26	10	40	MHz
Standard Frequency	13.0, 14.4, 16.369, 16.8, 19.2, 19.68, 20.0, 26.5535, 26.0				
Frequency Tolerance *	-	±2.0	-	±2.0	ppm
Frequency Stability					
V _S Supply Voltage (±5%) change	-	±0.2		±0.2	ppm
V _S Load (±10%) change	-	±0.2		±0.2	
V _S Aging	-	±1.0		±1.0	ppm / year
Supply Current					
10MHz ≤ F _O < 15MHz	-	1.5		1.5	mA
15MHz ≤ F _O < 26MHz	-	2.0	-	2.0	
26MHz ≤ F _O ≤ 40MHz	-	-	-	2.5	
Output Level	0.8	-	0.8	-	Vp-p
Load	10KΩ // 10pF		10KΩ // 10pF		
Control Voltage Range (VCTCXO)	0.5	2.5	0.5	2.5	V
Pulling Range (VCTCXO)	±5.0		±5.0		ppm
VC Input Impedance (VCTCXO)	1.0	-	1.0	-	MΩ
Phase Noise (@13.0MHz)					
100Hz	-	-115	-	-115	dBc/Hz
1 KHz	-	-135	-	-136	
10 KHz	-	-148	-	-148	
Start Time	-	2	-	2	mSec
Storage Temp. Range	-55	+125	-55	+125	°C

*Frequency at 25°C, 1 hour after reflow

Frequency Stability vs. Temp. Range

Temp.(°C)	ppm	± 0.5	± 1.0
0 ~ +55		S	S
-10 ~ +60		S	S
-20 ~ +70		S	S
-30 ~ +85		O	S
-40 ~ +85		X	O

S = Standard O = Optional X = Not Available



Specifications subject to change without notice.