

Features

Typical 3.2 x 2.5 x 0.9 mm ceramic SMD package
 For automatic assembly
 Compactness and light weight
 Low power consumption
 VCTCXO available
 Low thickness

Picture of Part

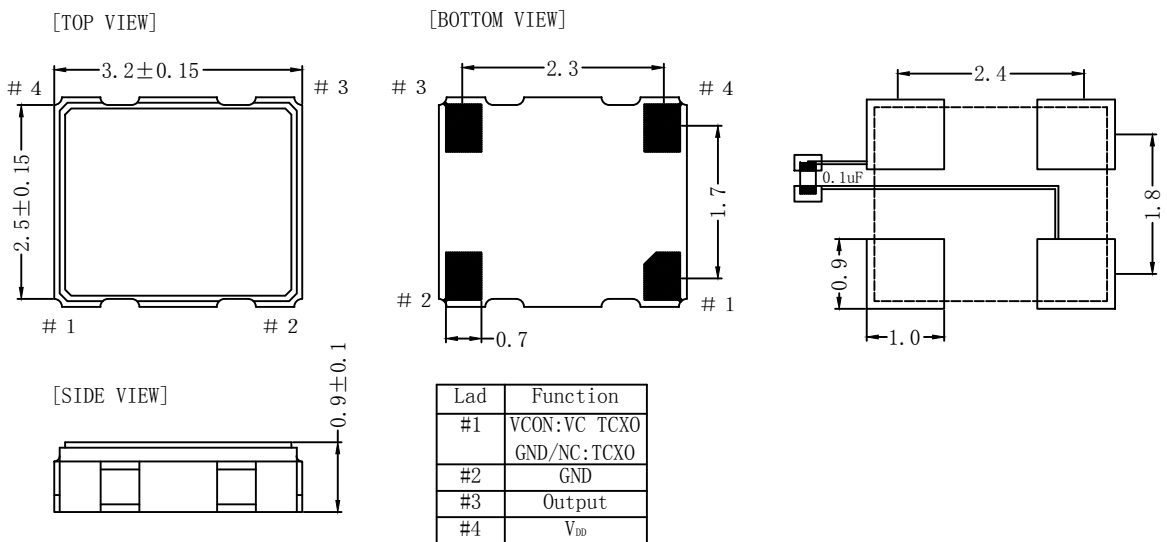


Typical Applications

GPS
 WLAN / WiMAX
 Mobile Phone

Mechanical Drawing and PIN Connections and Solder Pad Layout

Unit: mm



Specifications

ELECTRICAL SPECIFICATION

Parameter	3.0V		2.5V		1.8V		Unit
	Min.	Max.	Min.	Max.	Min.	Max.	
Supply Voltage Variation(VDD)5%	2.85	3.15	2.375	2.625	1.71	1.89	V
Frequency Range	10	52	10	52	10	52	MHz
Standard Frequency	12.8, 16.367667, 16.368, 16.369, 19.2, 20, 26, 40						
Frequency Tolerance	-	±2.0	-	±2.0	-	±2.0	ppm
Frequency Stability							
Vs Supply Voltage(±5%) change	-	±2.0	-	±2.0	-	±2.0	ppm
Vs Load(±10%)change	-	±2.0	-	±2.0	-	±2.0	
Vs Aging	-	±1.0	-	±1.0	-	±1.0	ppm/year
Supply Current 13MHz <<F0<26MHz	-	2.0	-	2.0	-	2.0	mA
26MHz <<F0<52MHz	-	2.5	-	2.5	-	2.5	
Output Level (Clipped Sine Wave)	0.8	-	0.8	-	0.8	-	Vp-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)	±5.0	-	±5.0	-	±5.0	-	ppm
Vc Input Impedance(VCTCXO)	500	-	500	-	500	-	KΩ
Phase Noise@19.2MHz							
100Hz	-115		-115		-115		dBc/Hz
1KHz	-135		-135		-135		
10KHz	-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

Packing: Tape & Reel 3000 pcs per Reel

FREQ. STABILITY vs. TEMP. RANGE

Temp. (°C) \ ppm	±0.5	±1.0	±1.5	±2.0	±2.5
0 ~ +55	Available	Available	Available	Available	Available
-10 ~ +60	Available	Available	Available	Available	Available
-20 ~ +70	Available	Available	Available	Available	Available
-30 ~ +85	Conditional	Available	Available	Available	Available
-40 ~ +85	Conditional	Conditional	Available	Available	Available