

7.0 x 5.0 mm SMD Voltage Controlled Temperature Compensated Crystal Oscillator(VCTCXO)

FEATURE

Typical 7.0x5.0x1.9 mm ceramic SMD package.
For automatic assembly.
Compactness and light weight.
Low power consumption.
VCTCXO available.



TYPICAL APPLICATION

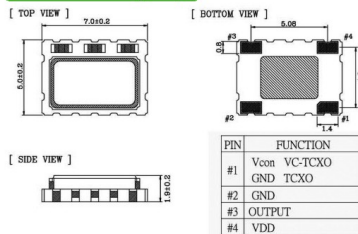
Femtocell, Base Stations
WLAN/WiMAX/WIFI, Wireless Communications
Mobile Phone

ELECTRICAL SPECIFICATION

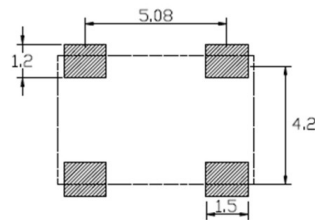
Parameter	3.3V		2.5V		unit
	Min.	Max.	Max.	Min	
Supply Voltage Variation (VDD) 5%	3.135	3.465	2.4	2.75	V
Frequency Range	5	52	5	52	MHz
Standard Frequency (for CMOS)	5, 6.4, 8, 8.192, 10, 12.5, 12.8, 16, 16.384, 19.44, 25, 28, 40				
Standard Frequency (for Clipped Sine)	8, 8.192, 10, 12.5, 12.8, 16, 16.384, 19.44, 25, 26, 40				ppm
Frequency Tolerance*	-	±2.0	-	±2.0	
Frequency Stability	-	-	-	-	ppm
Vs Supply Voltage (±5%) change	-	±0.1	-	±0.1	
Vs Load (±10%) change	-	±0.2	-	±0.2	
Vs Aging	-	±1.0	-	±1.0	
Supply Current (CMOS output)	-	6	-	6	mA
Supply Current (Clipped Sine Wave)	-	3.5	-	3.5	
Output Level (CMOS)					V
Output High (Logic "1")	90%VDD	-	90%VDD	-	
Output Low (Logic "0")	-	10%VDD	-	10%VDD	%
Duty	45	55	45	55	
Output Level (Clipped Sine Wave)	0.8	-	-	-	Vp-p
Load (CMOS)	15pF		15pF		KΩ//10pF
Load (Clipped Sine Wave)	10KΩ//10pF		10KΩ//10pF		
Control Voltage Range (VCTCXO)	0.5	2.5	0.5	2.5	V
Pulling Range (VCTCXO)	±5.0	±12.0	±5.0	±12.0	ppm
Ve Input Impedance (VCTCXO)	100	-	100	-	KΩ
Phase Noise @ 12.8 MHz					dBc / Hz
100 Hz	-115		-115		
1 KHz	-135		-135		
10 KHz	-148		-148		
Start Time	-	2	-	2	mSec
Storage Temp. Range	-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 1000/3000pcs Reel

DIMENSION (mm)



SOLDER PAD LAYOUT(mm)



FREQ. STABILITY vs. TEMP. RANGE

Temp. (°C)	ppm	
	±0.5	±1.0
0~+55	O	O
-10~+80	Δ	O
-20~+70	O	O

Temp. (°C)	ppm	
	±0.5	±1.0
-30~+85	Δ	O
-40~+85	Δ	O

*O: Available Δ: Conditional X: Not available
*10~26MHz and Pulling < 8ppm available
Specifications subject to change without notice