

Series VT7

7.0 x 5.0 mm SMD Voltage Controlled Temperature Compensated Crystal Oscillator



FEATURE

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

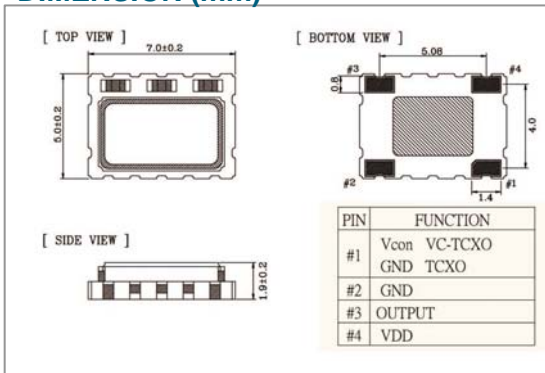
TYPICAL APPLICATION

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

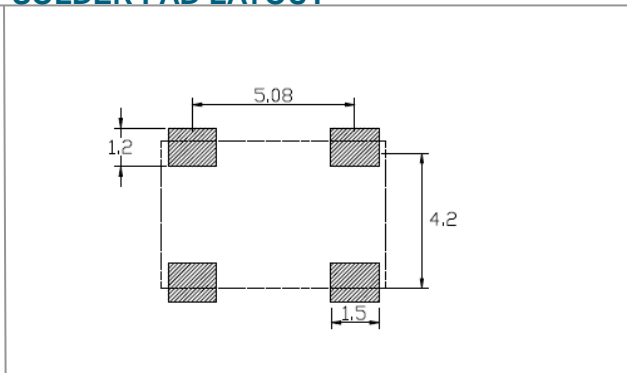


RoHS Compliant Standard

DIMENSION (mm)



SOLDER PAD LAYOUT



ELECTRICAL SPECIFICATION

Parameter	3.3V		2.5V		unit
	Supply Voltage Variation (VDD) 5%	3.135	3.465	2.4	
Frequency Range	5	52	5	52	MHz
Standard Frequency (for CMOS)	5, 6.4, 8, 192, 10, 12.5, 12.8, 16, 16.384, 19.44, 25, 26, 40				
Standard Frequency (for Clipped Sine)	8, 8.192, 10, 12.5, 12.8, 16, 16.384, 19.44, 25, 26, 40				
Frequency Tolerance*	-	±2.0	-	±2.0	ppm
Frequency Stability					
Vs Supply Voltage (±5%) change	-	±0.1	-	±0.1	ppm
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)					
Output High (Logic "1")	90%VDD	-	90%VDD	-	V
Output Low (Logic "0")	-	10%VDD	-	10%VDD	
Duty	45	55	45	55	%
Output Level (Clipped Sine Wave)	0.8	-	0.8	-	Vp-p
Load (CMOS)	15pF		15pF		
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
Vc Input Impedance (VCTCXO)	100	-	100	-	KΩ
Phase Noise @ 12.8 MHz					
100 Hz	-	-115	-	-115	dBc / Hz
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

FREQ. STABILITY vs. TEMP. RANGE

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

* O: Available △: Conditional X: Not available

* 10~26MHz and Pulling < 8ppm available