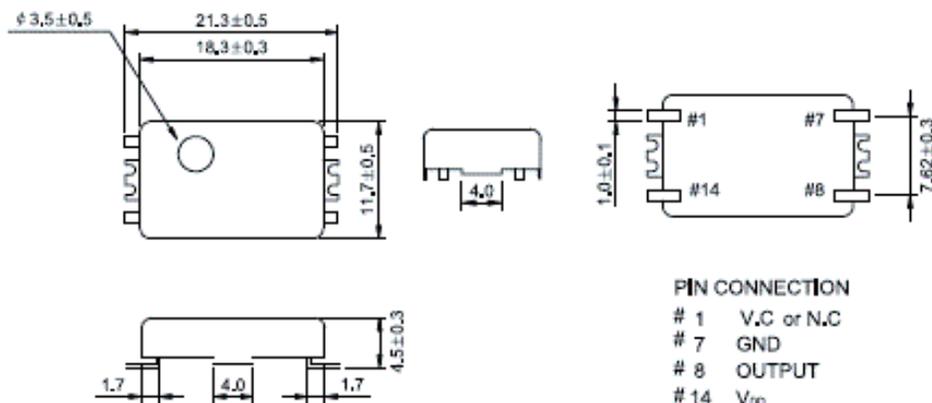


## CT21S VC / TCXO

21.3 x 11.7 x 4.5mm  
9.600MHz to  
40.000MHz  
RoHS Compliant  
Clipped Sinewave  
3.3 or 5.0VDC  
VC Option on Pin 1

## Mechanical Dimensions

Dimensions are in millimeters



### PIN CONNECTION

# 1 V<sub>C</sub> or N.C  
# 7 GND  
# 8 OUTPUT  
# 14 V<sub>DD</sub>

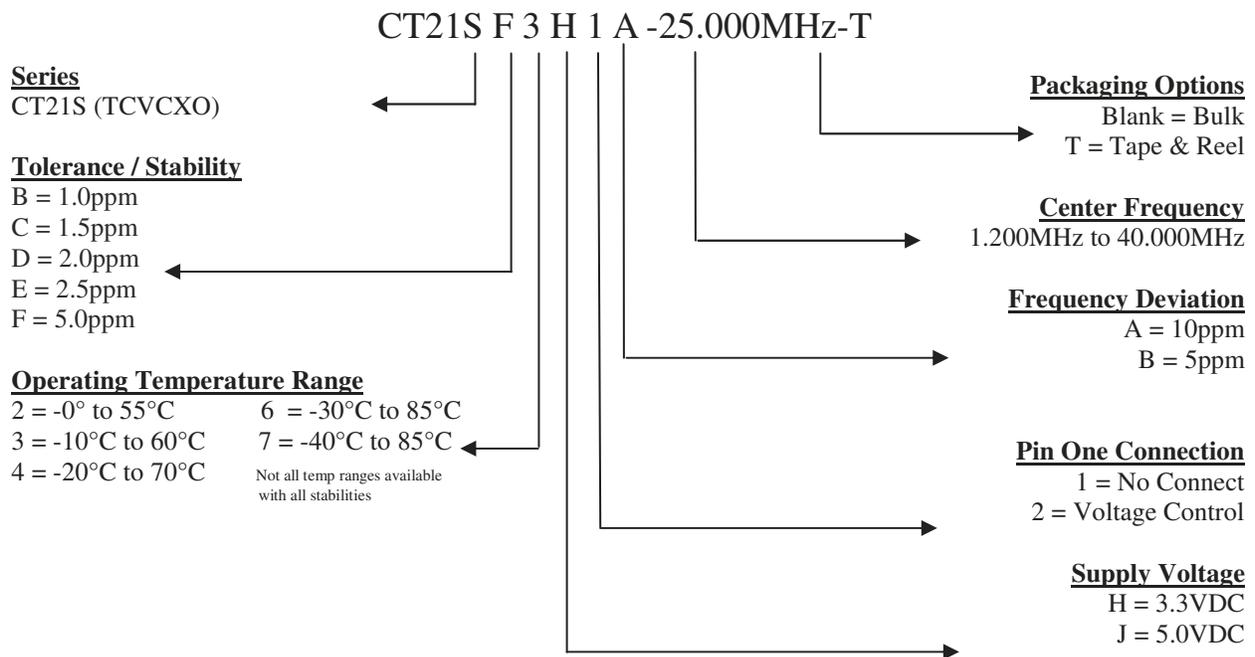
## Electrical Specifications

Frequency Range	9.600MHz To 40.000MHz
Frequency Deviation	$\pm 5.0$ ppm or 10ppm minimum Over Control Voltage
Frequency Stability	Vs. Operating Temp Rang: See Part Numbering Guide Vs. Input Voltage ( $\pm 5\%$ ): $\pm 0.3$ ppm Max Vs. Load ( $\pm 10\%$ ): $\pm 0.3$ ppm Max
Supply Voltage	3.3VDC $\pm 5\%$ or 5.0VDC $\pm 5\%$
Output Voltage Logic High (V <sub>OH</sub> ) Logic Low (V <sub>OL</sub> )	0.8Vp-p Min (V <sub>DD</sub> : 3.3V <sub>DC</sub> ) 1.0Vp-p Min (V <sub>DD</sub> : 5.0V <sub>DC</sub> )
Load Drive Capability	10kOhms//10pF
Control Voltage (External)	1.65V <sub>DC</sub> $\pm 1.65$ V <sub>DC</sub> (V <sub>DD</sub> : 3.3V <sub>DC</sub> ), 2.5V <sub>DC</sub> $\pm 2.0$ V <sub>DC</sub> (V <sub>DD</sub> : 5.0V <sub>DC</sub> ) (Positive Transfer Characteristic)
Internal Trim (Top of Can)	$\pm 3$ ppm min
Input Current	9.600 to 27.000MHz: 3mA Max 27.001 to 40.000MHz: 4mA Max
Rise / Fall Time	5nS Max
Duty Cycle	50 $\pm 10\%$
Aging	$\pm 1$ ppm Per Year Max

## Environmental & Mechanical

Shock	Mil-STD-883, Method 2002, Condition B
Solderability	Mil-STD-883, Method 2003
Solvent Resistance	Mil-STD-883, Method 215
Vibration	Mil-STD-883, Method 2007, Condition A

## Part Numbering Guide



## Part Marking Guide

Line #1	CFP CT21S
Line #2	XX.XXX M XX.XXX = Frequency (5 Digits Max + Decimal) M = Frequency Unit Of Measure (MHz)
Line #3	XX YY ZZ XX = Crescent Manufacturing Identifier YY = Last Two Digits of Year ZZ = Week of Year