

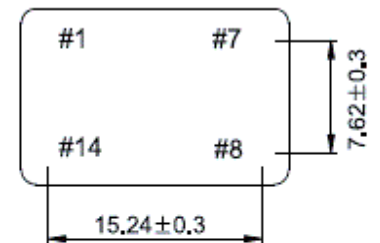
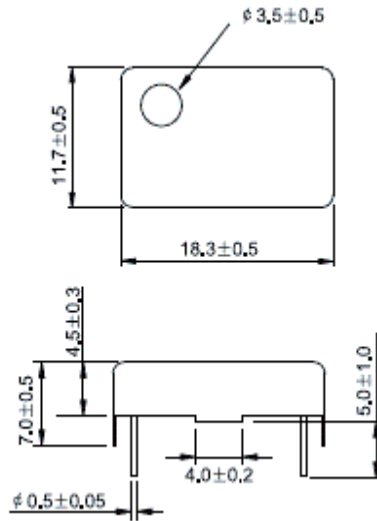
## CT18SX VC / TCXO

18.5 x 11.7 x 7.0mm  
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

Land Pattern



### PIN CONNECTION

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

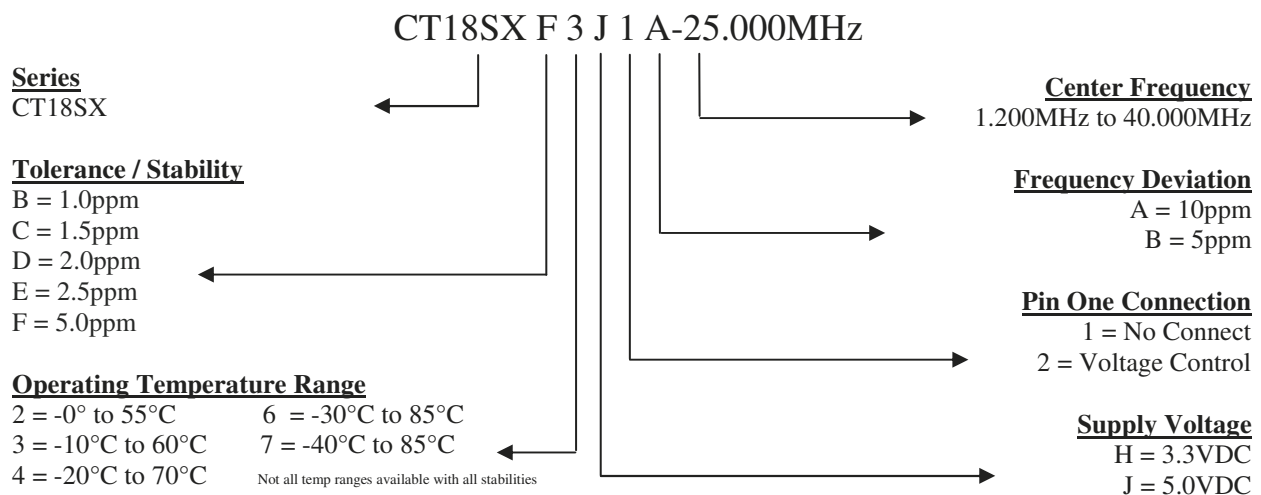
## Electrical Specifications

|                                                                                 |                                                                                                                                                                                                                  |
|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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<br>Vs. Input Voltage ( $\pm 5\%$ ): $\pm 0.3$ ppm Max<br>Vs. Load ( $\pm 10\%$ ): $\pm 0.3$ ppm Max                                                            |
| Supply Voltage                                                                  | 3.3VDC $\pm 5\%$ or 5.0VDC $\pm 5\%$                                                                                                                                                                             |
| Output Voltage<br>Logic High (V <sub>OH</sub> )<br>Logic Low (V <sub>OL</sub> ) | 0.8Vp-p Min (V <sub>DD</sub> : 3.3V <sub>DC</sub> )<br>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> $\pm$ 1.65V <sub>DC</sub> (V <sub>DD</sub> : 3.3V <sub>DC</sub> ), 2.5V <sub>DC</sub> $\pm$ 2.0V <sub>DC</sub> (V <sub>DD</sub> : 5.0V <sub>DC</sub> )<br>(Positive Transfer Characteristic) |
| Internal Trim (Top of Can)                                                      | $\pm 3$ ppm min                                                                                                                                                                                                  |
| Input Current                                                                   | 9.600 to 27.000MHz: 3mA Max<br>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 CT18SX                                                                                              |
| Line #2 | XX.XXX M<br>XX.XXX = Frequency (5 Digits Max + Decimal)<br>M = Frequency Unit Of Measure (MHz)          |
| Line #3 | XX YY ZZ<br>XX = Crescent Manufacturing Identifier<br>YY = Last Two Digits of Year<br>ZZ = Week of Year |