

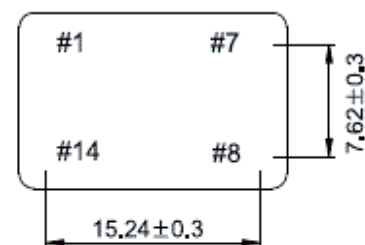
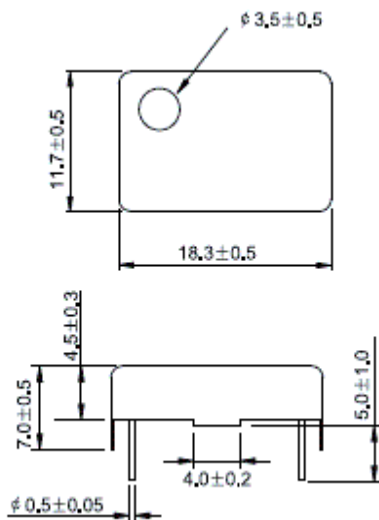
CT18SX VC / TCXO

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_{DD}

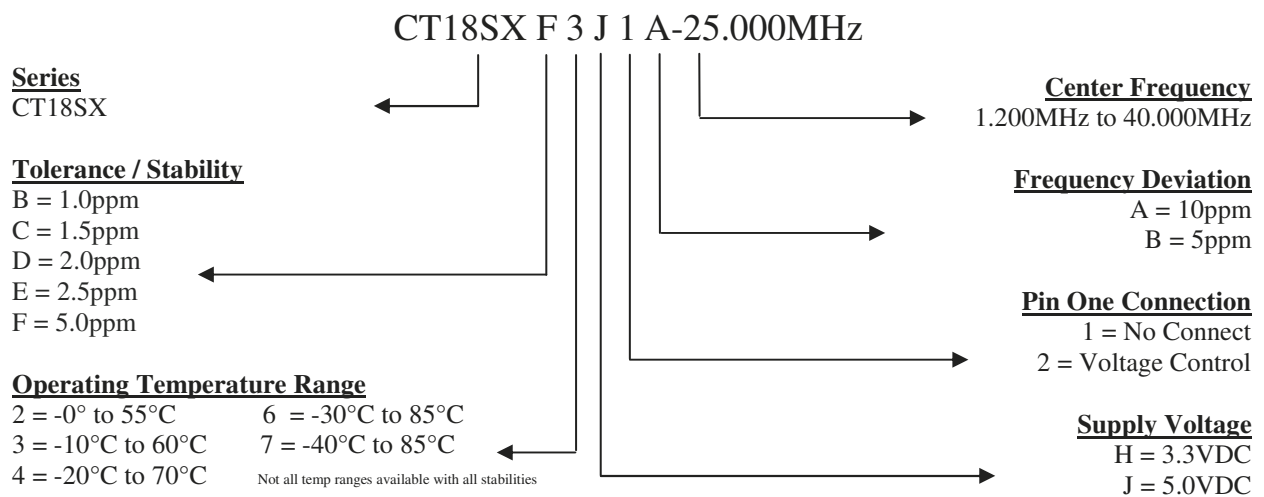
Electrical Specifications

| | |
|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frequency Range | 9.600MHz To 40.000MHz |
| Frequency Deviation | ± 5.0 ppm or 10ppm minimum Over Control Voltage |
| Frequency Stability | Vs. Operating Temp Rang: See Part Numbering Guide Vs. Input Voltage ($\pm 5\%$): ± 0.3 ppm Max Vs. Load ($\pm 10\%$): ± 0.3 ppm Max |
| Supply Voltage | 3.3VDC $\pm 5\%$ or 5.0VDC $\pm 5\%$ |
| Output Voltage Logic High (V_{OH}) Logic Low (V_{OL}) | 0.8Vp-p Min ($V_{DD} : 3.3V_{DC}$) 1.0Vp-p Min ($V_{DD} : 5.0V_{DC}$) |
| Load Drive Capability | 10kOhms//10pF |
| Control Voltage (External) | $1.65V_{DC} \pm 1.65V_{DC}$ ($V_{DD} : 3.3V_{DC}$), $2.5V_{DC} \pm 2.0V_{DC}$ ($V_{DD} : 5.0V_{DC}$) (Positive Transfer Characteristic) |
| Internal Trim (Top of Can) | ± 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 | ± 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 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 |