

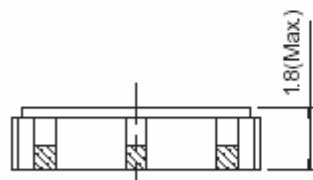
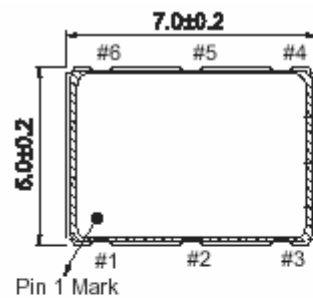
### Features

- LVDS, Extended Temperature available
- Ceramic SMD Package, Seam sealed, 7x5x1.8mm
- 3.3V Operation
- RoHS Compliant

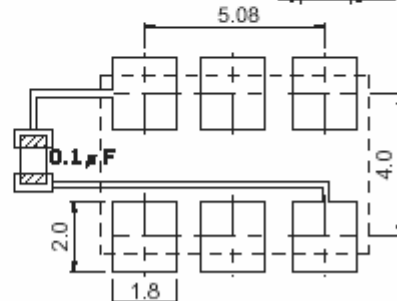
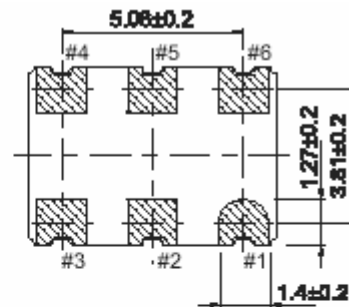
### Specification

| Parameter                   | Characteristic  |
|-----------------------------|---|
| Frequency Range             | 1.000MHz ~ 800.0000MHz  |
| Frequency Stability         | +/- 50 ppm std. (See Table 4)<br>Inclusive of operating temperature |
| Operating Temperature Range | 0 ~ 70°C std. (See Table 6)   |
| Storage Temperature Range   | -55 ~ +125°C  |
| Input Voltage               | 3.3Vdc +/- 5% std. (See Table 3)                                    |
| Control Voltage             | 1.65V +/- 1.35V std. (See Table 3)                                  |
| Pulling Range               | +/- 100 ppm min. (See Table 5)                                      |
| Input Current               | 100mA max   |
| Output 0 Level (Vol)        | Vcc-2.175Vdc max  |
| Output 1 Level (Voh)        | Vcc-1.925Vdc min  |
| Symmetry (Duty Cycle)       | 40/60%@50% of waveform std. (See Table 7)                           |
| Rise & Fall Time            | 0.6nS typical, 1.0nS max  |
| Linearity                   | +/- 10% std. (+/-15%, +/-20%)                                       |
| Start up time               | 10mS max  |
| Output Load                 | 50Ω Differential Load   |
| Tri-state Output (Pin# 2)   | High or Open : Oscillation, Low : High Impedance                    |
| Aging                       | +/- 3 ppm max / year  |
| Phase Jitter (12KHz~20MHz)  | 1pS RMS max (See Table A)   |

### Drawing



UNIT : mm



Recommended soldering pattern

### Pin Connection

1. Vcontrol
2. E/D or N/C
3. Ground
4. Output
5. Comp. Output
6. Vcc

**Ordering Guide**

Typical P/N : C57VL - 155.52M - 32 - 50 E B S1 T1 -TR

1                    2                    3    4    5    6    7    8    9

**1. Package** C57VL = 7x5x1.8mm

(7x5mm Ceramic LVDS SMD VCXO)

**2. Frequency range** : 1 to 800MHz

**3. Input Voltage & Control Voltage**

31 : 3.3V (Vcontrol : 1.65 +/- 1.35V)

32 : 3.3V (Vcontrol : 1.65 +/- 1.50V)

33 : 3.3V (Vcontrol : 1.65 +/- 1.65V)

**4. Frequency Stability**

00 : +/- 100ppm

50 : +/- 50ppm

25 : +/- 25ppm

**5. Pulling Range**

C : +/- 50ppm min

D : +/- 80ppm min

E : +/- 100ppm min

F : +/- 130ppm min

\* : The others

**6. Operating Temperature Range**

A : 0~70℃

B : -20~70℃

C : -40~85℃

D : -10~70℃

\* : The others

**7. Symmetry (Duty Cycle)**

S1 : 45/55% at 50% of waveform

S2 : 40/60% at 50% of waveform

**8. Pin#2 Connection**

T1 : Pin#2 E/D Standard

T2 : Pin#2 N/C

**9. Packing**

TR : Tape and Reel

BU : Bulk

TU : Tube

**A. Phase Jitter**

1MHz ≤ F ≤ 80MHz : 1pS RMS max

80.001MHz < F ≤ 800MHz : 3pS RMS max

(12KHz ~ 20MHz)