

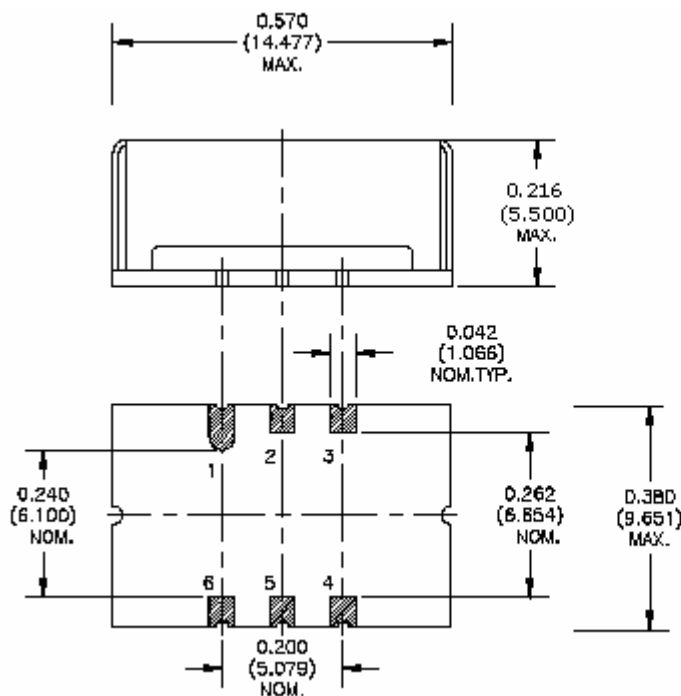
### Features

- LVDS, Extended Temperature available
- PCB type 6pads, Sealed crystal built in, 14x9.8x5.5mm
- 3.3V / 5.0V Operation
- RoHS Compliant

### Specification

Parameter	Characteristic
Frequency Range	8.000MHz ~ 622.0800MHz
Frequency Stability	+/- 50 ppm std. (See Table 4) 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	250mA max (See Table B)
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



### Pin Connection

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

### Ordering Guide

Typical P/N : F6VL - 155.52M - 31 - 50 E B S1 T1 - TR

1                    2                    3    4    5    6    7    8    9

**1. Package** F6VL = 14x9.8x5.5mm, 6pads

(FR4, PCB type 6pads LVDS VCXO)

**2. Frequency range** : 8 to 622.08MHz

**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)

51 : 5.0V (Vcontrol : 2.50 +/- 2.00V)

52 : 5.0V (Vcontrol : 2.50 +/- 2.50V)

**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**

8MHz ≤ F ≤ 200MHz : 1pS RMS max

200.001MHz < F ≤ 622.08MHz : 3pS RMS max

(12KHz ~ 20MHz)

**B. Input Current**

3.3V : 80mA ~ 200mA max

5.0V : 120mA ~ 250mA max