

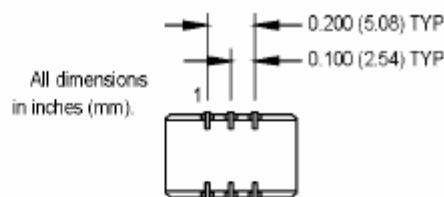
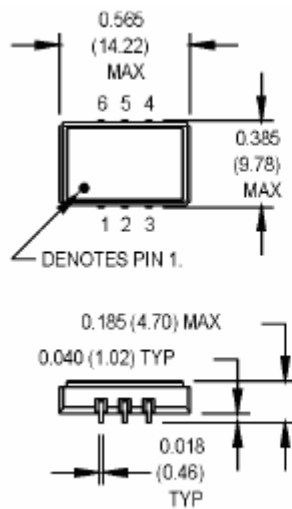
## Features

- LVDS, Extended Temperature available
- Ceramic 6 J-Lead Package, Seam sealed, 14x9.8x4.7mm
- 3.3V Operation
- RoHS Compliant

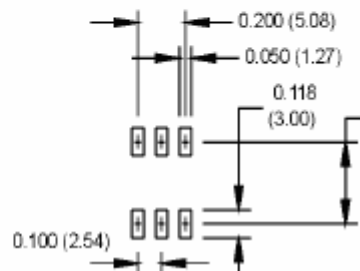
## Specification

Parameter	Characteristic
Frequency Range	1.000MHz ~ 800.0000MHz
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	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)
Operating Temperature Range	0 ~ 70°C std. (-40 ~ 85°C Available)
Mechanical Shock	Per MIL-STD-202, Method 213, Cond. E
Thermal Shock	Per MIL-STD-883, Method 1011, Cond. A
Vibration	Per MIL-STD-883, Method 2007, Cond. A
Soldering Conditions	260°C for 10sec. max.: 230°C for 90sec max.
Hermetic Seal	Leak rate less than 5x10-8 atm.cc/s of Helium

## Drawing



SUGGESTED SOLDER PAD LAYOUT



### Pin Connection

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

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### Ordering Guide

Typical P/N : C6JVL - 155.52M - 32 - 50 E B S1 T1 -TR

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<p><b>1. Package</b> C6JVL = 14x9.8x4.7mm, <u>6pads</u> (Ceramic 6J-Lead LVDS SMD VCXO)</p> <p><b>2. Frequency range</b> : 1 to 800MHz</p> <p><b>3. Input Voltage &amp; Control Voltage</b>  31 : 3.3V (Vcontrol : 1.65 +/- 1.35V)  32 : 3.3V (Vcontrol : 1.65 +/- 1.50V)  33 : 3.3V (Vcontrol : 1.65 +/- 1.65V)</p> <p><b>4. Frequency Stability</b>  00 : +/- 100ppm  50 : +/- 50ppm  25 : +/- 25ppm</p> <p><b>5. Pulling Range</b>  C : +/- 50ppm min  D : +/- 80ppm min  E : +/- 100ppm min  F : +/- 130ppm min  * : The others</p> <p><b>6. Operating Temperature Range</b>  A : 0~70℃  B : -20~70℃  C : -40~85℃  D : -10~70℃  * : The others</p>	<p><b>7. Symmetry (Duty Cycle)</b>  S1 : 45/55% at 50% of waveform  S2 : 40/60% at 50% of waveform</p> <p><b>8. Pin#2 Connection</b>  T1 : Pin#2 E/D Standard  T2 : Pin#2 N/C</p> <p><b>9. Packing</b>  TR : Tape and Reel  BU : Bulk  TU : Tube</p> <p><b>A. Phase Jitter</b>  1MHz ≤ F ≤ 80MHz : 1pS RMS max  80.001MHz &lt; F ≤ 800MHz : 3pS RMS max  (12KHz ~ 20MHz)</p>
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