

## BVF75L SERIES LVDS VCXO - 7.0 x 5.0 x 1.7mm

|                                 |  |                           |
|---------------------------------|--|---------------------------|
| Frequency Range                 | 1.000MHz to 80.000MHz (Fundamental)  |                           |
| Supply Voltage $\pm 5\%$        | 2.5V   | 3.3V                      |
| Current Consumption             | 80mA max   |                           |
| Pin 1 Control Voltage           | 1.25V $\pm$ 1.05V (1.25V)  | 1.65V $\pm$ 1.35V (1.65V) |
| Frequency Deviation             | $\pm 100$ ppm min  |                           |
| Linearity / Slope               | 10% / Positive   |                           |
| Temperature Range               | -20 °C to +70 °C or -40 °C to +85 °C   |                           |
| Operating Storage               | -55 °C to +125 °C  |                           |
| Frequency Stability             | $\pm 25$ ppm to $\pm 50$ ppm   |                           |
| Output Load Condition           | 100 $\Omega$ Differential  |                           |
| Symmetry (Duty Cycle)           | 45% to 55%   |                           |
| Output Rise / Fall Time (tr/ff) | 1ns max (20% to 80%)   |                           |
| High Output Voltage             | 1.4V typ ~ 1.6V max  |                           |
| Low Output Voltage              | 1.1V typ ~ 0.9V min  |                           |
| Pin 2 Tri-state                 | Output Enable Voltage  | No Connection             |
|                                 | Output Enable Voltage  | 70% Vdd                   |
|                                 | Output Disable Voltage   | 30% Vdd                   |
| Output Differential Voltage     | 0.247V ~ 0.454V  |                           |
| Offset Voltage                  | 1.125V ~ 1.375V  |                           |
| Oscillation Start Up Time       | 5ms max  |                           |
| Aging                           | $\pm 3$ ppm max  |                           |
| Phase Jitter (12kHz to 20MHz)   | 1ps max  |                           |
| Note 1                          | Inclusive of calibration, temp stability, supply change, load change, shock and vibration, and 5 years aging |                           |

## PART NUMBERING GUIDE

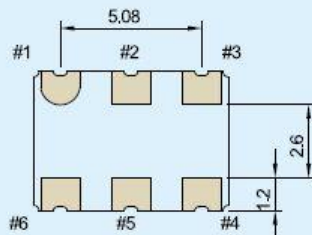
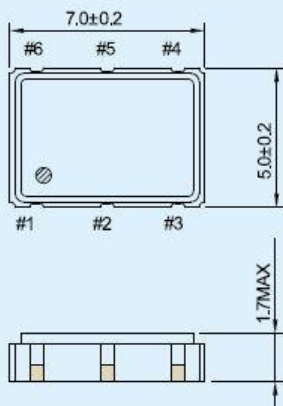
| Series | Voltage  | Temp Range/Stability        | Pulling Range          | Frequency |
|--------|----------|-----------------------------|------------------------|-----------|
| BVF75L | 2.5V = 2 | -20 °C - +70 °C /25 ppm = A | $\pm 100$ ppm min = 10 | 25M000    |
|        | 3.3V = 3 | -40 °C - +85 °C /25 ppm = B |                        |           |
|        |          | -20 °C - +70 °C /50 ppm = C |                        |           |
|        |          | -40 °C - +85 °C /50 ppm = D |                        |           |

For other Tolerance, Stability, and Temperature options please consult factory

Example P/N: BVF75L – 3 – B – 10 – 25M000

To Request a Quote click here - [www.beckelec.com/request-a-quote/](http://www.beckelec.com/request-a-quote/)

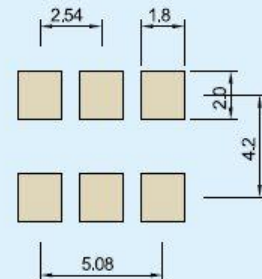
## MECHANICAL DRAWING



### CONNECTION

- #1 V.C
- #2 Tri-State
- #3 GND
- #4 OUTPUT 1
- #5 OUTPUT 2
- #6 Vdd

### Recommended Soldering Pattern



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