



## BV14L SERIES LVDS VCXO - 14.4 x 9.6 x 5.5mm

Frequency Range	0.75MHz to 800.000MHz (multi)	
Supply Voltage $\pm 5\%$	2.5V	3.3V
Current Consumption	80mA max	
Pin 1 Control Voltage	2.5V ~ 1.25V $\pm$ 1.05V (1.25V)	3.3V ~ 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)	4ps max	
Note 1	Inclusive of calibration, temp stability, supply change, load change, shock and vibration, and 5 years aging	

## PART NUMBERING GUIDE

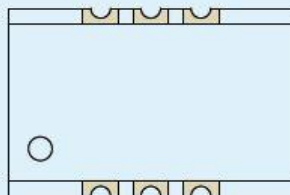
Series	Voltage	Temp Range/Stability	Pulling Range	Frequency
BV14L	2.5V = 2	-20 °C - +70°C /25 ppm = A	$\pm 100$ ppm min = 10	50M000
	3.3V = 3	-40 °C - +85°C /25 ppm = B		
		-20 °C - +70°C /50 ppm = C		
		-40 °C - +85°C /50 ppm = D		

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

Example P/N: **BV14L – 3 – B – 10 – 50M000**

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## MECHANICAL DRAWING



### PIN CONNECTION

- Pin1 : Control Voltage (VC)
- Pin2 : Tri-state
- Pin3 : Ground
- Pin4 : Output
- Pin5 : C - Output
- Pin6 : Supply Voltage

