

## BC53L SERIES LVDS OSCILLATOR - 5.0 x 3.2 x 1.3mm

Frequency Range	12.000 to 800.000MHz	
Supply Voltage $\pm 5\%$	2.5V	3.3V
Temperature Range	-20 °C to +70°C or -40 °C to +85°C	
Operating	-55 °C to +125°C	
Storage	$\pm 25$ ppm to $\pm 50$ ppm	
Frequency Stability		
Current Consumption	60mA max	80mA max
Output Load	100 $\Omega$ Differential	
Output	LVDS	
Symmetry (Duty Cycle)	45% to 55%	
Output Rise / Fall Time (tr/ff)	300ps typ, 600ps max (20% to 80%)	
High Output Voltage	1.4V typ ~ 1.6V max	
Low Output Voltage	1.1V typ ~ 0.9V min	
Differential Output Voltage	0.247V ~ 0.454V, 0.350V typ	
Offset Voltage	1.1257V ~ 1.375V, 1.25V typ	
Pin 1 Tri-state	Output Enable Voltage	No Connection
	Output Enable Voltage	70% Vdd
	Output Disable Voltage	30% Vdd
Oscillation Start Up Time	5ms typ, 10ms max	
Aging	$\pm 3$ ppm max	
Phase Jitter (12kHz to 20MHz)	1 ps max / 4ps multiplier	
Period Jitter (Pk to Pk)	$\pm 25$ ps max	
Note 1	Inclusive of calibration, temp stability, supply change, load change, shock and vibration, and 5 years aging	

### PART NUMBERING GUIDE

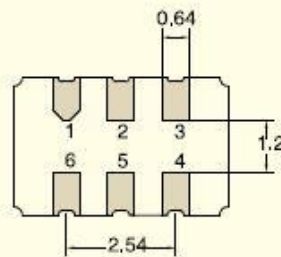
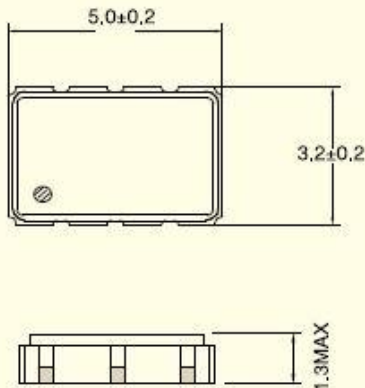
Series	Voltage	Temperature Range/Stability	Frequency
BC53L	2.5V = 2 3.3V = 3	-20 °C to +70°C /25 ppm = A -40 °C to +85°C /25 ppm = B -20 °C to +70°C /50 ppm = C -40 °C to +85°C /50 ppm = D	100M000

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

Example P/N: BC53L – 3 – D –100M000

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

### MECHANICAL DRAWING



- CONNECTION
- #1 Tri-state or N.C
  - #2 N.C
  - #3 GND
  - #4 OUTPUT
  - #5 C-Output
  - #6 Supply Voltage

·Recommended Soldering Pattern

