

BC75L SERIES LVDS OSCILLATOR - 7.0 x 5.0 x 1.7mm

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	± 25 ppm to ± 50 ppm	
Frequency Stability		
Current Consumption	60mA max	80mA max
Output Load	100Ω 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	± 3 ppm max	
Phase Jitter (12kHz to 20MHz)	1 ps max / 4ps multiplier	
Period Jitter (Pk to Pk)	± 25 ps max	
Note 1	Inclusive of calibration, temp stability, supply change, load change, shock and vibration, and 5 years aging	

PART NUMBERING GUIDE

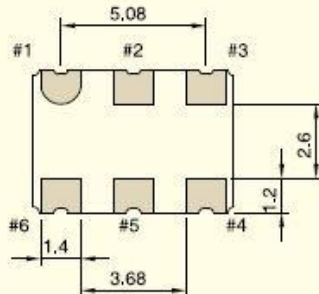
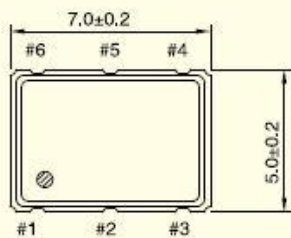
Series	Voltage	Temperature Range/Stability	Frequency
BC75L	2.5V = 2	-20 °C to +70°C /25 ppm = A	100M000
	3.3V = 3	-40 °C to +85°C /25 ppm = B	
		-20 °C to +70°C /50 ppm = C	
		-40 °C to +85°C /50 ppm = D	

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

Example P/N: BC75L – 3 – D – 100M000

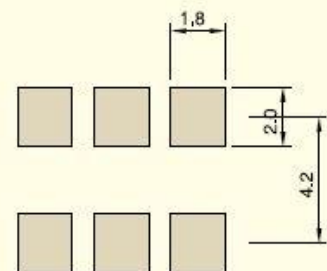
To Request a Quote click here - www.beckelec.com/request-a-quote/

MECHANICAL DRAWING



- CONNECTION
- #1 Tri-State or N,C
 - #2 N,C
 - #3 GND
 - #4 OUTPUT 1
 - #5 OUTPUT 2
 - #6 Vdd

Recommended Soldering Pattern



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