



BC75P SERIES LVPECL OSCILLATOR - 7.0 x 5.0 x 1.7mm

Frequency Range	0.750MHz 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 Storage	-55 °C to +125 °C	
Frequency Stability	± 50 ppm to ± 100 ppm	
Current Consumption	70mA max	90mA max
Output Load	50 Ω to Vdd-2.0V	
Output	LVPECL	
Symmetry (Duty Cycle)	45% to 55%	
Output Rise / Fall Time (tr/tf)	300ps typ, 600ps max (20% to 80%)	
High Output Voltage	Vdd-1.025V min to Vdd-0.88V max	
Low Output Voltage	Vdd-1.81V min to Vdd-1.62V max	
Pin 1 Tri-state	Output Enable Voltage	No Connection
	Output Enable Voltage	70% Vdd
	Output Disable Voltage	30% Vdd
Oscillation Start Up Time	5ms 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
BC75P	2.5V = 2 3.3V = 3	-20 °C to +70 °C /50 ppm = C -40 °C to +85 °C /50 ppm = D -20 °C to +70 °C /100 ppm = E -40 °C to +85 °C /100 ppm = F	100M000

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

Example P/N: BC75P – 3 – E –100M000

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MECHANICAL DRAWING

