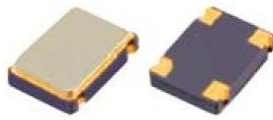


## BC75 SERIES CMOS OSCILLATOR - 7.0 x 5.0 x 1.7mm

Frequency Range	32.768kHz to 250.000MHz	
Supply Voltage $\pm 5\%$	(1.8V ~ 160MHz max), (2.5V, 3.3V ~ 250MHz) (5.0V ~ 125MHz max)	
Output Load	15pF	
Current Consumption	See Chart Below	
Temperature Range	Operating Storage	-20 °C to +70 °C or -40 °C to +85 °C
		-55 °C to +125 °C
Frequency Stability	$\pm 25$ ppm to $\pm 50$ ppm	
Output	CMOS	
Symmetry (Duty Cycle)	45% to 55%	
Output Rise / Fall Time (tr/tf)	10ns max (except 32.768kHz)	
High Output Voltage	90% Vdd	
Low Output Voltage	10% Vdd	
	Output Enable Voltage	No Connection
Pin 1 Tri-state	Output Enable Voltage	70% Vdd
	Output Disable Voltage	30% Vdd
Oscillation Start Up Time	5ms max	
Aging	$\pm 3$ ppm max	
Phase Jitter (12kHz to 20MHz)	1 ps max	
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	

## CURRENT CONSUMPTION: MAXIMUM mA

MHz	$\leq 25$	$\leq 40$	$\leq 60$	$\leq 80$	$\leq 125$	$\leq 160$	$\leq 250$
1.8V	4	6	10	15	25	30	
2.5V	6	8	12	18	30	35	40
3.3V	10	15	20	25	40	45	50
5.0V	15	20	30	35	50		



## BC75 SERIES OSCILLATOR PART NUMBERING GUIDE

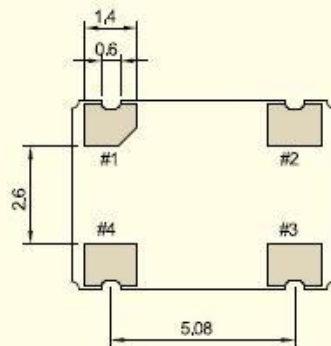
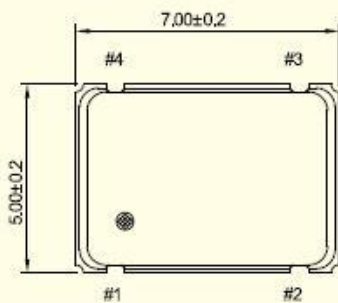
Series	Voltage	Temperature Range/Stability	Frequency
BC75	1.8V = 1	-20 °C to +70°C /25 ppm = A	25M000
	2.5V = 2	-40 °C to +85°C /25 ppm = B	
	3.3V = 3	-20 °C to +70°C /50 ppm = C	
	5.0V = 5	-40 °C to +85°C /50 ppm = D	

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

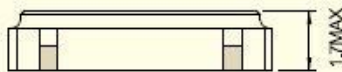
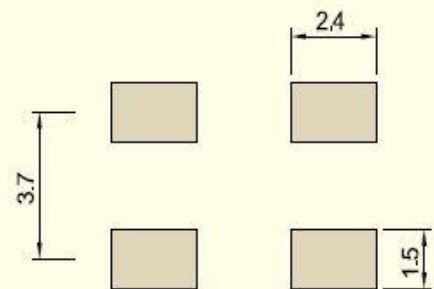
**Example P/N: BC75 – 3 – B –25M000**

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

## MECHANICAL DRAWING



• Recommended Soldering Pattern



### CONNECTION

- #1 N.C or EN/DIS(Tri-State)
- #2 GND
- #3 OUTPUT
- #4 Vdd