

## BC21 SERIES CMOS OSCILLATOR - 2.0 x 1.6 x 0.7mm

|                                 |  |      |      |
|---------------------------------|--|------|------|
| Frequency Range                 | 20.000MHz to 60.000MHz   |      |      |
| Supply Voltage $\pm 5\%$        | 1.8V   | 2.5V | 3.3V |
| Output Load                     | 15pF   |      |      |
| Current Consumption             | 20mA max   |      |      |
| 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             | ±25 ppm to ±50 ppm   |      |      |
| Output                          | CMOS   |      |      |
| Symmetry (Duty Cycle)           | 45% to 55%   |      |      |
| Output Rise / Fall Time (tr/ff) | 10ns max   |      |      |
| High Output Voltage             | 90% Vdd  |      |      |
| Low Output Voltage              | 10% Vdd  |      |      |
| Pin 1 Tri-state                 | 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   |      |      |
| Period Jitter (Pk to Pk)        | 25ps max   |      |      |
| Note 1                          | Inclusive of calibration, temp stability, supply change, load change, shock and vibration, and 5 years aging |      |      |

## PART NUMBERING GUIDE

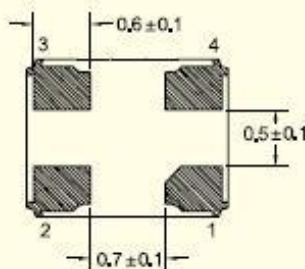
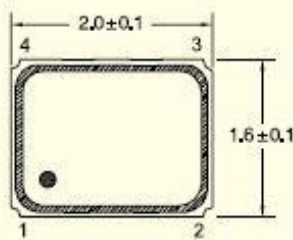
| Series | Voltage  | Temperature Range/Stability | Frequency |
|--------|----------|-----------------------------|-----------|
| BC21   | 1.8V = 1 | -20 °C to +70°C /25 ppm = A | 25M000    |
|        | 2.5V = 2 | -40 °C to +85°C /25 ppm = B |           |
|        | 3.3V = 3 | -20 °C to +70°C /50 ppm = C |           |
|        |          | -40 °C to +85°C /50 ppm = D |           |

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

**Example P/N: BC21 – 3 – B –25M000**

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

## MECHANICAL DRAWING



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

Recommended Soldering Pattern

