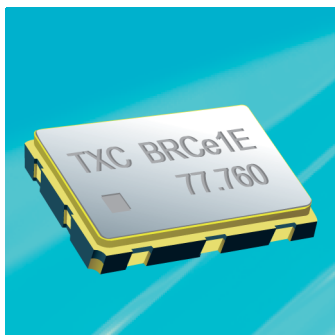




### Features

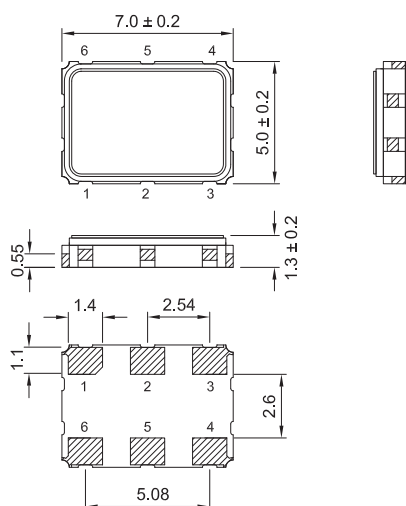
- > Voltage Controlled Crystal Oscillator (VCXO).
- > Fundamental solution.
- > CMOS output, output frequencies 60 MHz to 220 MHz.
- > Wide pull range and good linearity.
- > Excellent low phase noise and jitter.
- > Tri-State function available.
- > Main applications : SDH/ SONET.
- > RoHS Compliant / Pb Free.

### Electrical Specifications

| Item / Type                                    | BR                            |
|------------------------------------------------|-------------------------------|
| Output Type                                    | CMOS                          |
| Output Load                                    | 15 pF                         |
| Oscillation Mode                               | Fundamental                   |
| Supply Voltage                                 | 3.3 V                         |
| Frequency Range                                | 60 ~ 220 MHz                  |
| Frequency Stability / Operating Temperature    | $\pm 50$ ppm / - 40 ~ + 85 °C |
| Storage Temperature Range                      | - 55 ~ + 125 °C               |
| Voltage Vol ( Max. ) / Voh ( Min. )            | 0.1 VDD / 0.9 VDD             |
| Rise ( Tr ) / Fall ( Tf ) Time ( 20 % ~ 80 % ) | 5 ns Max.                     |
| Supply Current                                 | 60 mA Max.                    |
| Symmetry                                       | 45 ~ 55 %                     |
| Start-up Time                                  | 10 ms Max.                    |
| Absolute Pulling Range ( APR ) *               | $\pm 100$ ppm Min. or specify |
| Nominal Control Voltage                        | 0.5 VDD                       |
| Control Voltage Range                          | 0 ~ VDD                       |
| Linearity                                      | $\pm 10\%$ Max.               |
| Phase Jitter ( 12 KHz ~ 20 MHz )               | 1ps Max.                      |

\* APR=(Pull Range) - (Degrations due to initial tolerance, operating temperature, supply voltage variation and aging)

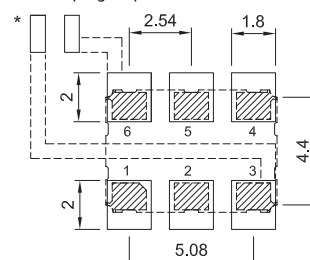
### Dimensions



PAD FUNCTION:  
 1:CONTROL VOLTAGE  
 2:ENABLE CONTROL  
 3:GND  
 4:OUT  
 5:NC  
 6:VDD

Suggested Layout

\*:External high frequency power supply decoupling required.



Units:mm

Remark : Specification subject to change without prior notice. Please confirm with our sales.