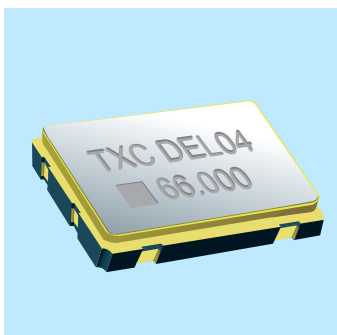




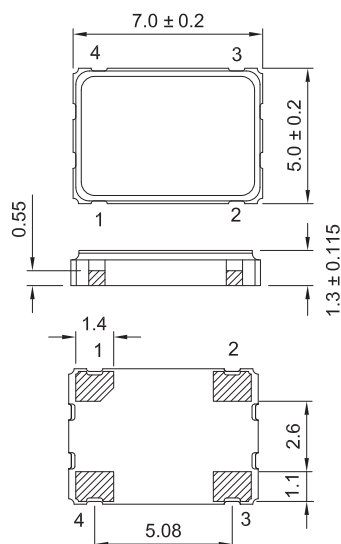
### Features

- > Small SMD seam sealed clock crystal oscillator units.
- > High precision characteristic covering up to wide frequency range.
- > Designed for automatic mounting and reflow soldering.
- > Optionable stand-by function for output: Tri-state output.
- > Supply voltage range : 1.8 V ~ 5 V.
- > High stability, low jitter, low power consumption.
- > Main application : wireless communication, PC, and LCDM.
- > RoHS Compliant / Pb Free.

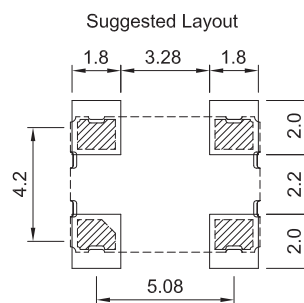
### Electrical Specifications

| Item / Type                     | 7W                                                             |                       |               |
|---------------------------------|----------------------------------------------------------------|-----------------------|---------------|
| Output Type                     | CMOS                                                           |                       |               |
| Output Load                     | 15 pF                                                          | 15 pF , 30 pF         | 15 pF , 50 pF |
| Oscillation Mode                | Fundamental / 3rd Overtone                                     |                       |               |
| Supply Voltage                  | 1.8 V                                                          | 2.5 V , 2.8 V , 3.3 V | 5 V           |
| Frequency Range                 | 1 ~ 170 MHz                                                    |                       |               |
| Frequency Stability             | $\pm 50$ ppm (-10 ~ + 70 °C), or specify                       |                       |               |
| Operating Temperature Range     | - 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      | 10 ns (1 ~ 10 MHz) , 7 ns (20 ~ 50 MHz) , 5 ns (> 50 MHz) Max. |                       |               |
| Supply Current                  | 20 mA Max.                                                     |                       |               |
| Symmetry                        | 40 ~ 60 %                                                      |                       |               |
| Start-up Time                   | 10 ms Max.                                                     |                       |               |
| Phase Jitter (12 KHz ~ 20 MHz)  | 1 ps Max.                                                      |                       |               |
| Aging (at 25 °C)                | $\pm 3$ ppm / year Max.                                        |                       |               |

### Dimensions



PAD FUNCTION:  
 1: ENABLE CONTROL  
 2: GND  
 3: OUT  
 4: VDD



Units:mm

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