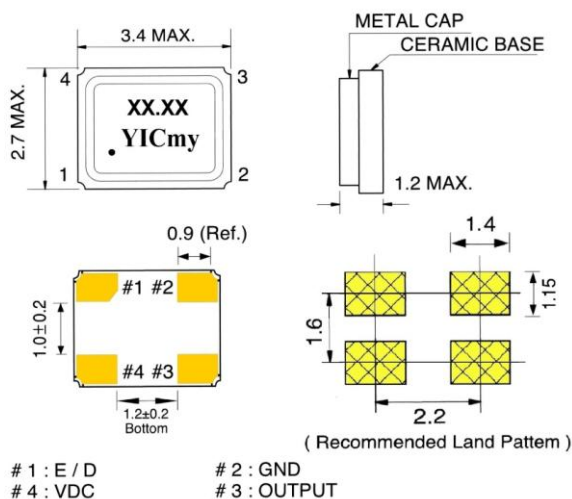


### ● SPECIFICATION

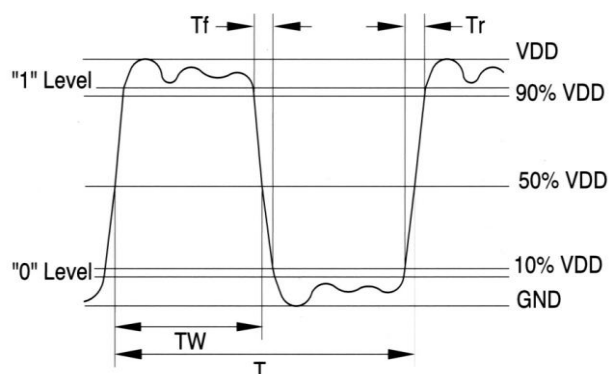
|                             |                                                                                         |             |             |
|-----------------------------|-----------------------------------------------------------------------------------------|-------------|-------------|
| Model                       | OSC S3 RTC Series                                                                       |             |             |
| Frequency range             | 32.768KHz                                                                               |             |             |
| Storage temperature range   | - 55°C ~ + 125°C                                                                        |             |             |
| Operation temperature range | - 10°C ~ + 70°C , - 40°C ~ + 85°C                                                       |             |             |
| Frequency stability         | ±20 ppm ~ ±50ppm                                                                        |             |             |
| Power supply voltage        | 3.3V DC ±10%                                                                            | 2.5V DC ±5% | 1.8V DC ±5% |
| Current consumption         | 3.5mA max                                                                               | 2.5mA max   | 1.5mA max   |
| Output level                | C-MOS                                                                                   |             |             |
| Load                        | 15pF max.                                                                               |             |             |
| Output voltage level        | V <sub>OL</sub> : 10% V <sub>dd</sub> max. / V <sub>OH</sub> : 90% V <sub>dd</sub> min. |             |             |
| Duty cycle                  | 40% ~ 60% at 1/2 V <sub>dd</sub>                                                        |             |             |
| RISE / FALL TIME            | 50nS max                                                                                | 50nS max    | 50nS max    |
| AGING                       | ±3ppm / Year                                                                            |             |             |

### ● DIMENSIONS (mm)

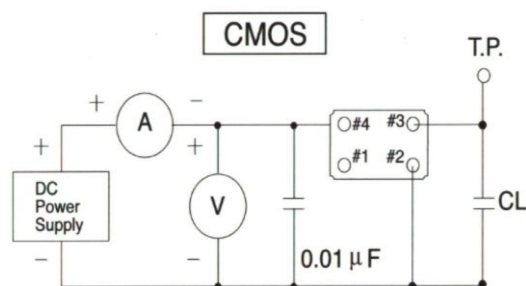
#### S3



### ● OUTPUT WAVEFORM



### ● TEST CIRCUIT



\*\*\* Because S3 series has no by pass capacitor.  
So, we recommend our customer to use capacitor 0.01μF  
in join Vcc and GND.