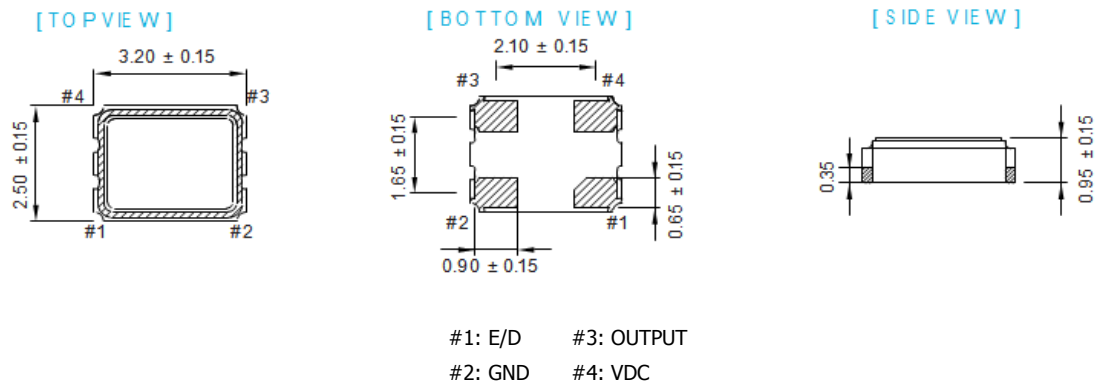


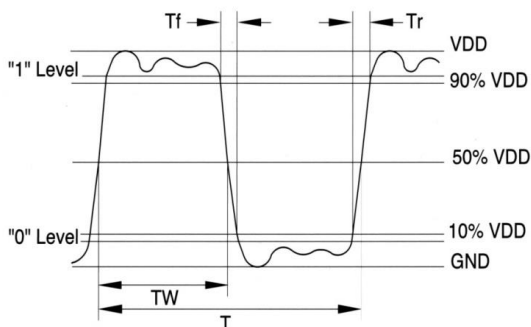
### ● SPECIFICATION

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	50uA 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.		
Start-up Time	2 m sec. max.		
Duty cycle	40% ~ 60% at 1/2 V <sub>dd</sub>		
RISE / FALL TIME	50nS max		
AGING	±3ppm / Year		

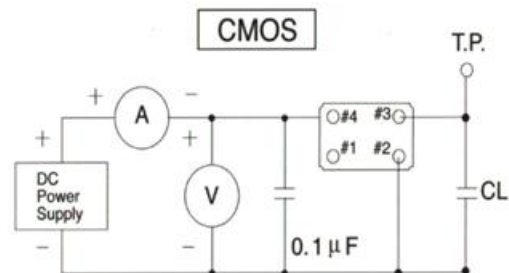
### ● DIMENSIONS (mm)



### ● OUTPUT WAVEFORM



### ● TEST CIRCUIT



\*\*\* Because S3 series has no by pass capacitor.  
So, we recommend our customer to use capacitor 0.1μF  
in join Vcc and GND.