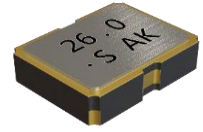


# CRYSTAL OSCILLATOR

## OSC86



### Applications

- Clock and Data Recovery

### Features

- Small ceramic package / Dimensions (3.2\* 2.5 \*0.9 )
- LowPower consumption ( CMOS/IC 1.5  $\mu$ A )with Tri-satate Function and wide range operating temperature ( - 40~+125  $^{\circ}$ C )
- Start-up time below 1 sec. Supply coltage 1.2 ~ 5.5V

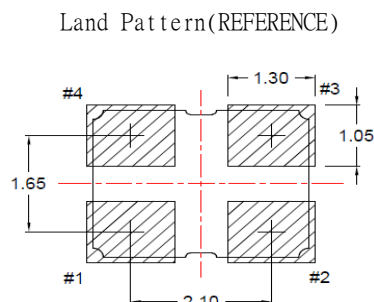
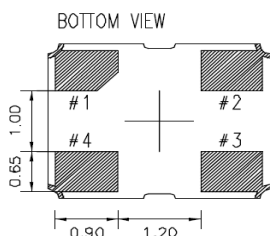
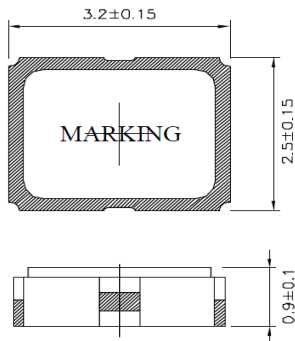
### Specifications



Model	OSC86
Nominal frequency	32.768 KHz
Storage temperature range	-55 ~ +125 $^{\circ}$ C
Operating temperature range	-40 ~ +125 $^{\circ}$ C
Frequency stability	+5 $\pm$ 20 ppm @Vdd=3.3 V,+25 $^{\circ}$ C
Frequency Temp. Characteristics	-120~+10 ppm @-20~+70 $^{\circ}$ C,+25 $^{\circ}$ C as the reference
Power supply voltage	+1.2~+5.5 V $\pm$ 10%
Current consumption	1.5 $\mu$ A max. @Vcc=3.3 V, No Load 2.5 $\mu$ A max. @Vcc=5.0 V, No Load
Output level	C-MOS
Load	15 pF max.
Output voltage level	V <sub>OL</sub> : 0.4 V max. / V <sub>OH</sub> : Vcc-0.4 V min.
Rise & Fall time	200 ns max. @10%Vcc~90%Vcc
Duty cycle	40%~60% at 50%Vcc
Start-up time	1 sec max.
Standby Current Consumption	1 $\mu$ A max.

Package quantity : 3,000pcs max./Reel

### Outline and Dimensions [unit: mm]



Terminal	Connection
#1	OE
#2	GND
#3	Output
#4	Vcc

OE Function	
OE pin	Output
High	Active
Low	Hi-Impedance