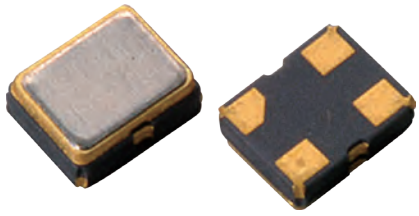
CRYSTAL OSCILLATOR

SPXO

HSO221S RTC Series



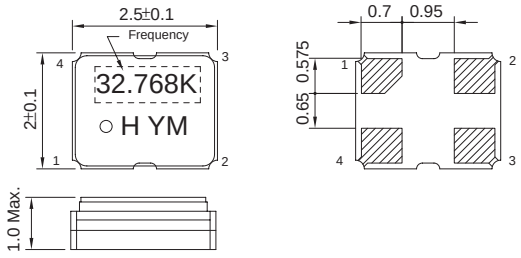
Features:

- Ultra miniature 32.768 kHz RTC oscillator in seam sealed ceramic package.
- Tri-state function.
- 3.3V drive and low current consumption.
- Small supply voltage shift.
- Optimal solution for RF power saving application on portable devices.

RoHS Compliance

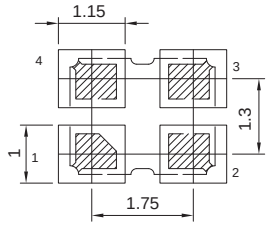
Free of Pb

Dimension (mm):



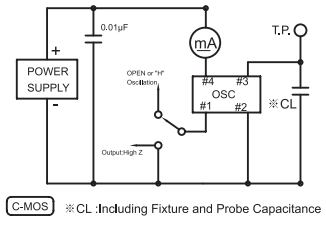
Pin Connections	
1	OE(Output Enable)
2	GND
3	Output
4	Vdd

Recommended Land Pattern (mm)
<Top View>

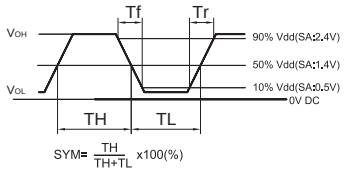


Test Circuit and Output Waveform:

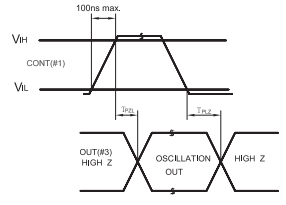
Measurement Circuit



Output Waveform



Input and Output Condition



Standard Specification:

ITEM \ TYPE		HSO221S			
Frequency Range		32.768kHz			
Frequency Stability		±25ppm, ±50ppm, ±100ppm			
Option on pin 1		pin 1 Have Control			
POWER voltage		+1.8 V (±10%)	+2.5 V (±10%)	+2.8 V (±10%)	+3.3 V (±10%)
Storage Temp.		-55℃ ~ +125℃			
Output Character	"0" Level	10%VDD max			
	"1" Level	90%VDD min			
	Rise Time (Tr)	10% ~ 90%VDD 300ns max			
	Fall Time (Tf)	90% ~ 10%VDD 300ns max			
	Symmetry	60/40 to 40/60 at 50%VDD			
	Output Load	15pF Max.			

*Packing Unit: 3,000pcs/Reel.

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