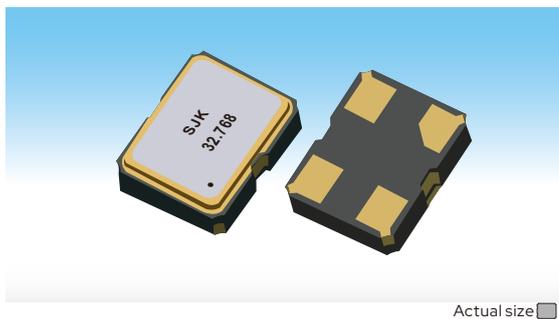


# SMD 32.768kHz Crystal Oscillators

2D Series SMD 2520 32.768kHz Crystal Oscillator    32.768kHz    O: CMOS    Size: 2.5×2.0×0.8mm



## Features

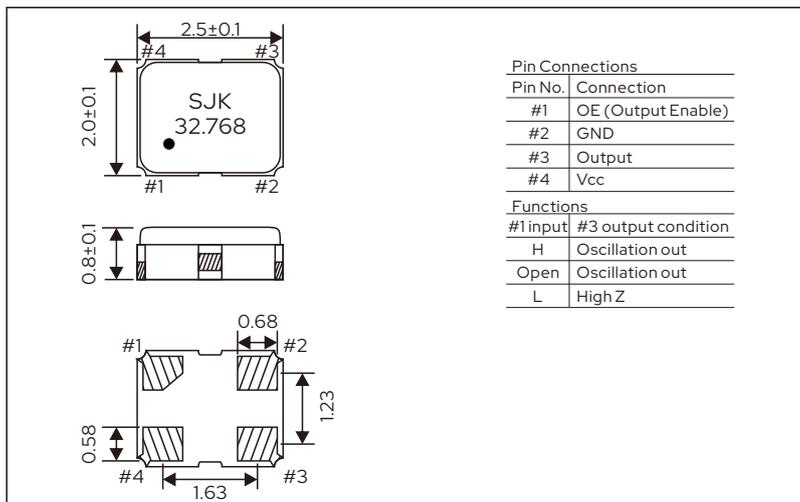
- 2520 size, 0.8mm high. Ultra miniature and lightweight SMD 32.768kHz crystal oscillators
- 3-state function
- Supply voltage: 1.8V~3.3V
- 32.768kHz reference frequency output
- Low jitter provides for high performance
- Application for RTC module, IoT, Wearable device, Mobile phone, Sport video cams, Health and wellness monitors, etc
- RoHS Compliant /Pb Free



## Standard Specifications

Item	Type	2D Series SMD 2520 32.768kHz Crystal Oscillator
Output Type		CMOS
Load condition		15pF, or specify
Frequency Range		32.768kHz
Supply Voltage		1.8V~3.3V
Frequency Stability (All Condition)		±20ppm, ±25ppm, ±30ppm, ±50ppm, or specify
Current Consumption		35µA max.
Stand-by Current		3µA max.
Symmetry		45~55%
0 Level Output Voltage (V <sub>OL</sub> )		0.1 V <sub>CC</sub> max.
1 Level Output Voltage (V <sub>OH</sub> )		0.9 V <sub>CC</sub> min.
Rise Time / Fall Time		20ns max.
OE Pin 0 Level Input Voltage (V <sub>IL</sub> )		0.2V <sub>CC</sub> max.
OE Pin 1 Level Input Voltage (V <sub>IH</sub> )		0.8V <sub>CC</sub> min.
Start-up Time		1ms max.
Operating Temperature Range		-20~+70°C, -40~+85°C, or specify
Storage Temperature Range		-55~+125°C
Phase Jitter (12KHz~20MHz)		1ps max.

## Dimensions



## Recommended Land Pattern [mm]

