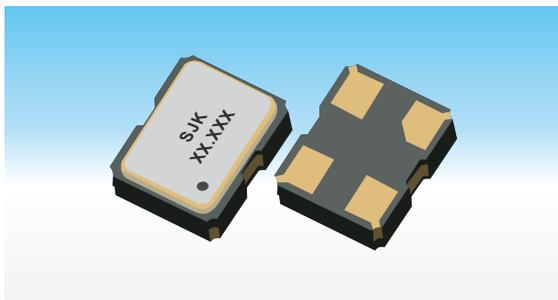


# 32.768KHz Clock Oscillator For Automotive

A2E Series SMD2016 32.768KHz Clock Oscillator For Automotive O: CMOS Size: 2.0×1.6×0.7mm



Actual size

## Features

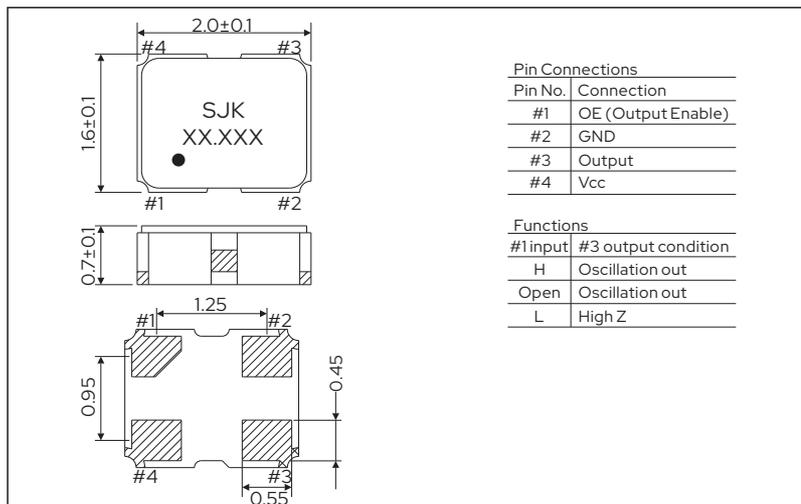
- SMD2016 seam sealed 32.768KHz clock crystal oscillator
- AEC-Q100 qualified
- 3-state function available
- Supply voltage: 1.8V~3.3V
- 32.768KHz frequency output, CMOS Output
- High stability, low phase jitter, low power consumption
- Application for Real Time Clock, System in sleep mode or low energy mode timekeeping, etc.
- RoHS Compliant /Pb Free



## Standard Specifications

Item	Type	A2E Series SMD 2016 32.768KHz Crystal Oscillator For Automotive
Output Type		CMOS
Load condition		15pF, or specify
Frequency Range		32.768KHz
Supply Voltage		1.8V~3.3V
Frequency Stability (All Condition)		±25ppm, ±30ppm, ±50ppm, ±100ppm, or specify
Current Consumption		0.5mA max.
Stand-by Current		10µA 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		40ns 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		10ms max.
Operating Temperature Range		-40~+85°C, -40~+105°C, -40~+125°C, or specify
Storage Temperature Range		-55~+125°C
Phase Jitter (12KHz~20MHz)		1ps max.

## Dimensions



## Recommended Land Pattern [mm]

