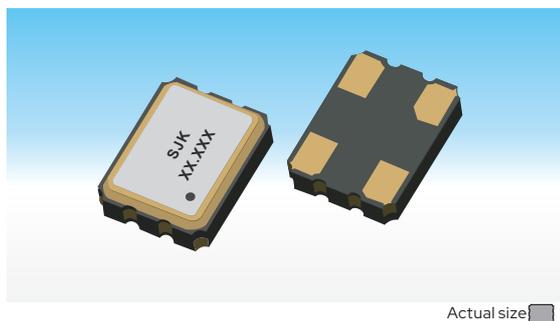


# Crystal Oscillator For Automotive

A3N Series SMD3225 Crystal Oscillator For Automotive 1~50MHz O: CMOS Size: 3.2×2.5×1.0mm



## Features

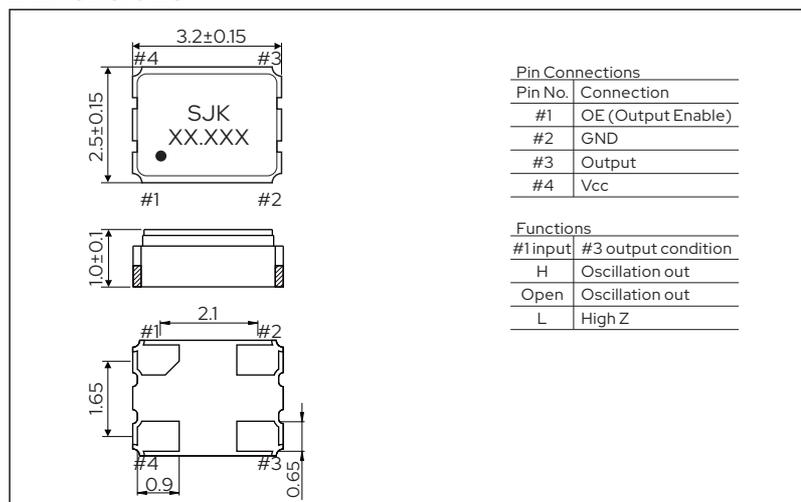
- SMD3225 seam sealed clock crystal oscillator
- AEC-Q100 qualified
- 3-state function available
- Supply voltage: 1.8V~3.3V
- Available frequency range: 1MHz~50MHz
- High stability, low phase jitter, low power consumption
- Application for bluetooth, ADAS, HEV-EV, BMS, Telematics, Smart cockpit, Body control, Wireless communications, etc.
- RoHS Compliant /Pb Free



## Standard Specifications

| Item  | Type | A3N Series SMD3225 Crystal Oscillator For Automotive |
|---|------|--|
| Output Type                                     |      | CMOS   |
| Load condition                                  |      | 15pF, or specify                                     |
| Frequency Range                                 |      | 1MHz~50MHz   |
| Supply Voltage                                  |      | 1.8V~3.3V  |
| Frequency Stability (All Condition)             |      | ±25ppm, ±30ppm, ±50ppm, ±100ppm, or specify          |
| Current Consumption                             |      | 20mA 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                           |      | 8.0ns 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]

