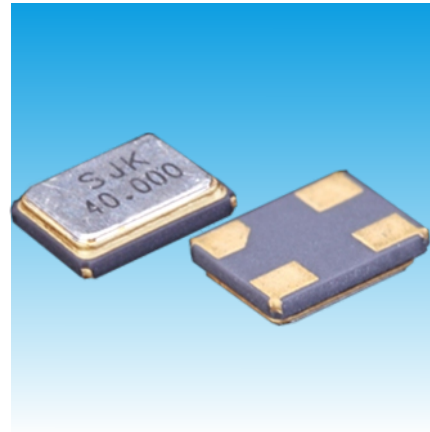


## Features

- 2520 size ultra miniature and lightweight SMD crystal units with low profile of 0.55mm
- Frequency range from 12MHz to 54MHz
- High precision and high frequency stability
- Allowing for high density surface mounting
- Automatic mounting and reflow soldering
- Application for wireless communications, PC, DSC, PDA, Wearable device, etc.
- RoHS Compliant /Pb Free



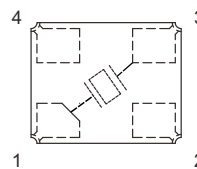
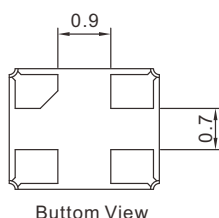
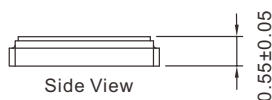
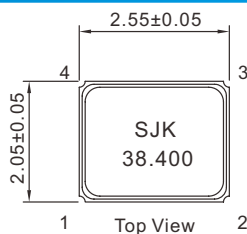
## Standard Specification

| Item /Type                                     | 7E (7E Series SMD Crystal Units) |
|--|----------------------------------|
| Frequency Range                                | 12~54 MHz                        |
| Frequency Tolerance (at 25°C)                  | ±10ppm, ±30ppm, or specify       |
| Frequency stability Over Operating Temperature | ±10ppm, ±30ppm, or specify       |
| Operating Temperature Range                    | -20~+70°C, or specify            |
| Shunt Capacitance (C <sub>0</sub> )            | 5pF Max.                         |
| Drive Level                                    | 1~200μW (50μW Typ.)              |
| Load Capacitance                               | 8pF, 10pF, 12pF, or specify      |
| Aging (at 25°C)                                | ±3ppm /year Max.                 |
| Storage Temperature Range                      | -55~+125°C                       |
| Packing Unit                                   | 3000pcs./Reel                    |

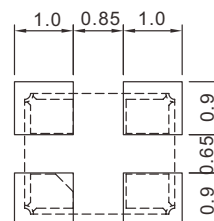
## Equivalent Series Resistance

| Fundamental |           |
|-------------|-----------|
| 12~13 MHz   | 150Ω Max. |
| 12~30 MHz   | 60Ω Max.  |
| 30~54 MHz   | 60Ω Max.  |

## Dimensions [mm]



Top View Crystal Connection



Top View Suggested Layout

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