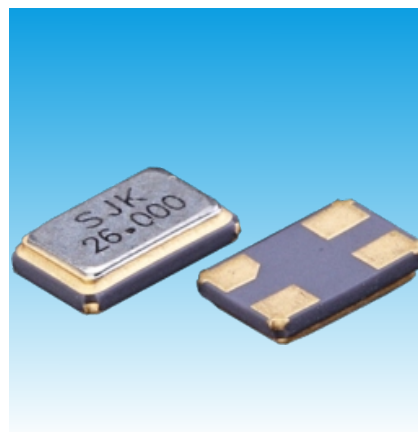


## Features

- 3225 size ultra miniature and lightweight SMD crystal units with low profile of 0.70mm
- Frequency range from 10MHz to 64MHz
- High precision and high reliability
- Automatic mounting and reflow soldering
- Application for telecommunications, DVC, PC, DSC, PDA, Wearable device, etc.
- RoHS Compliant /Pb Free



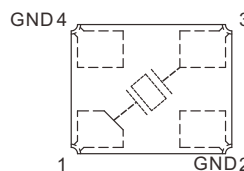
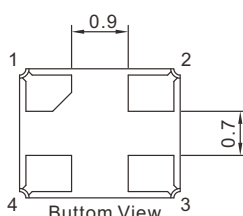
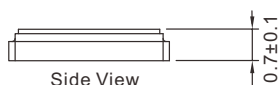
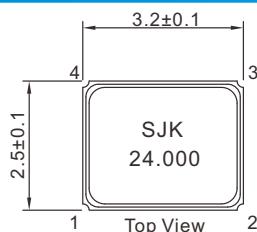
## Standard Specification

Item /Type	7U (7U Series SMD Crystal Units)
Frequency Range	10~64 MHz
Frequency Tolerance (at 25°C)	±10ppm~±30ppm, or specify
Frequency stability Over Operating Temperature	±10ppm~±30ppm, or specify
Operating Temperature Range	-40~+85°C, or specify
Shunt Capacitance (C <sub>0</sub> )	5pF Max.
Drive Level	1~200μW (100μW 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

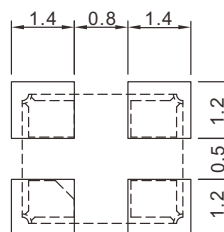
## Equivalent Series Resistance

Fundamental	
10~16 MHz	100Ω Max.
16~20 MHz	80Ω Max.
20~64 MHz	60Ω Max.

## Dimensions [mm]



Top View Crystal Connection



Top View Suggested Layout

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[BTL-20-513](#) [TSX-3225 24.0000MF15X-AC](#) [TSX-3225 16.0000MF18X-AC](#) [BTJ120E02C](#) [BTL-12-513](#) [7A-10.000MBBK-T](#) [7A-](#)  
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