

**7E**

[ 2.5×2.0×0.55 mm ]

**7U**

[ 3.2×2.5×0.70 mm ]

**7V**

[ 3.2×2.5×0.80 mm ]

**Surface Mount Crystals**

7E, 7U, 7V

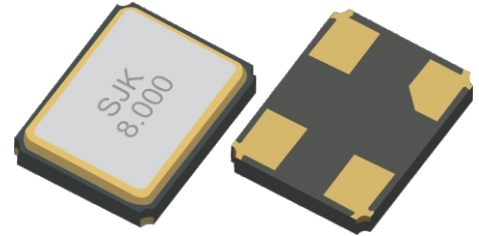
**Fundamental**

Frequency Range

**8MHz~125MHz**

## Features

- Small size SMD crystal units with 2.5×2.0 (2520), 3.2×2.5 (3225), seam sealed package or glass sealed package.
- The entire package can be grounded via the top metal lid and the bottom pads
- Small footprint. Ideal for space constrained applications
- Exhibits extremely low aging with a high shock & vibration resistance
- Applications: Mobile phone, WI-LAN, Wireless communications, Bluetooth, Clock for MPU, Radio communications, etc.



## Standard Specifications

Item / Type	<b>7E</b> (2.5×2.0×0.55 mm)	<b>7U</b> (3.2×2.5×0.70 mm)	<b>7V</b> (3.2×2.5×0.80 mm)
Frequency Range	12~54 MHz (Fund.)	8~125 MHz(Fund.)	8~60 MHz (Fund.)
Load Capacitance	8pF~32pF, or specify		
Drive Level	10 μW typical (200 μW max.)		
Frequency Tolerance (at 25°C)	± 10ppm, ±20ppm or ±30ppm (max.)		
Aging	±3ppm / Year (max.)		
Storage Temperature Range	-55°C~+125°C		

## ESR (Equivalent Series Resistance)

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Frequency Range	E.S.R	Frequency Range	E.S.R	Frequency Range	E.S.R
12~15.999MHz	150 Ω max.	8~9.9999 MHz	250 Ω max.	8~10 MHz	250 Ω max.
16~29.999MHz	100 Ω max.	10~11.999 MHz	200 Ω max.	10~12 MHz	200 Ω max.
30~54MHz	70 Ω max.	12~29.999 MHz	80 Ω max.	12~30MHz	80 Ω max.
		30~125 MHz	40 Ω max.	30~60 MHz	60 Ω max.

## Frequency stability Vs Operating temperature range

Temp. (°C)	ppm					
	±5	±10	±15	±20	±25	±30
-10~+60	▲	○	○	○	○	○
-20~+70	×	○	○	○	○	○
-40~+85	×	×	○	○	○	○

▲: Conditional  
○: Available  
×: Not available

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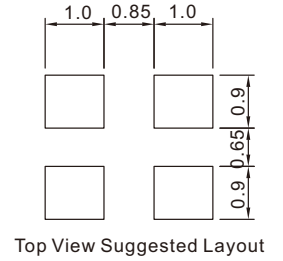
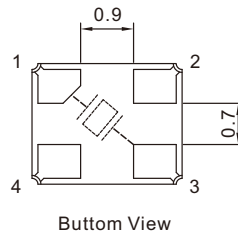
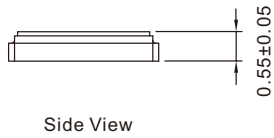
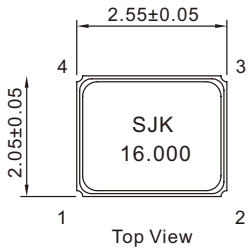
**Fundamental**

Frequency Range

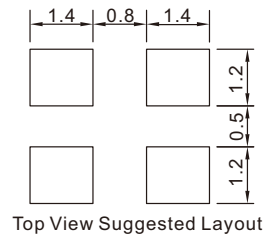
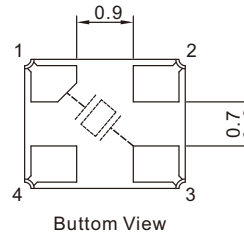
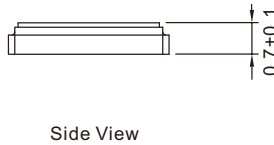
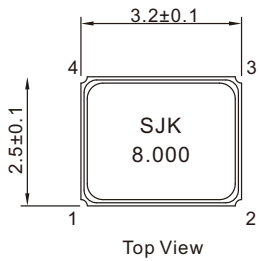
**8MHz~125MHz**

## Outline Dimensions (Unit: mm)

### 7E (2.5×2.0×0.55 mm)



### 7U (3.2×2.5×0.70 mm)



### 7V (3.2×2.5×0.80 mm)

