

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

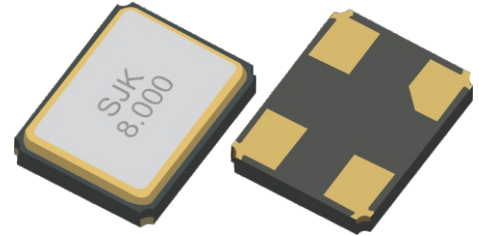
Fundamental

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	7E (2.5×2.0×0.55 mm)	7U (3.2×2.5×0.70 mm)	7V (3.2×2.5×0.80 mm)
Frequency Range	12~96 MHz (Fund.)	8~125 MHz (Fund./3rd)	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)

7E (2.5×2.0×0.55 mm)		7U (3.2×2.5×0.70 mm)		7V (3.2×2.5×0.80 mm)	
Frequency Range	E.S.R	Frequency Range	E.S.R	Frequency Range	E.S.R
12.0~16.0MHz	150 Ω max.	8.0~10.0 MHz	500 Ω max.	8.0~10.0 MHz	500 Ω max.
16.0~20.0MHz	100 Ω max.	10.0~12.0 MHz	200 Ω max.	10.0~12.0 MHz	200 Ω max.
20.0~30.0MHz	80 Ω max.	12.0~64.0 MHz	80 Ω max.	12.0~30.0MHz	80 Ω max.
30.0~60.0MHz	60 Ω max.	64.0~80.0 MHz	120 Ω max.	30.0~60.0 MHz	60 Ω max.
60.0~96.0MHz	50 Ω max.	80.0~125.0 MHz	80 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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Surface Mount Crystals

7E, 7U, 7V

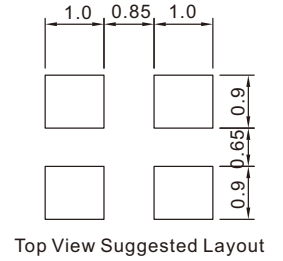
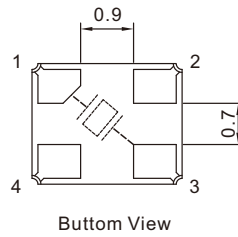
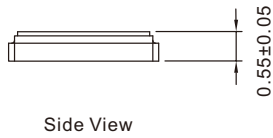
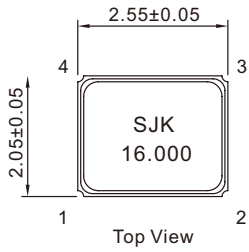
Fundamental

Frequency Range

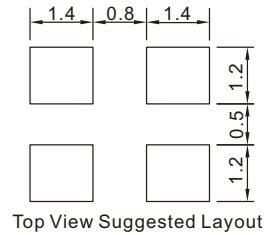
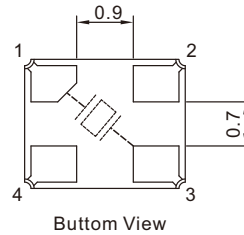
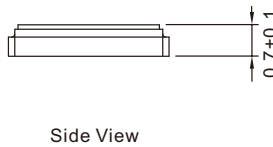
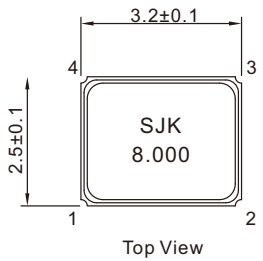
8MHz~125MHz

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)

