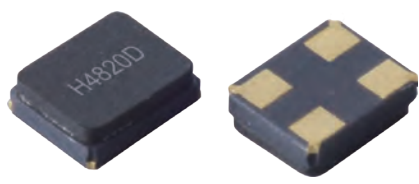




# CRYSTAL RESONATOR

## Glass Sealing Package

### HSX221G Series

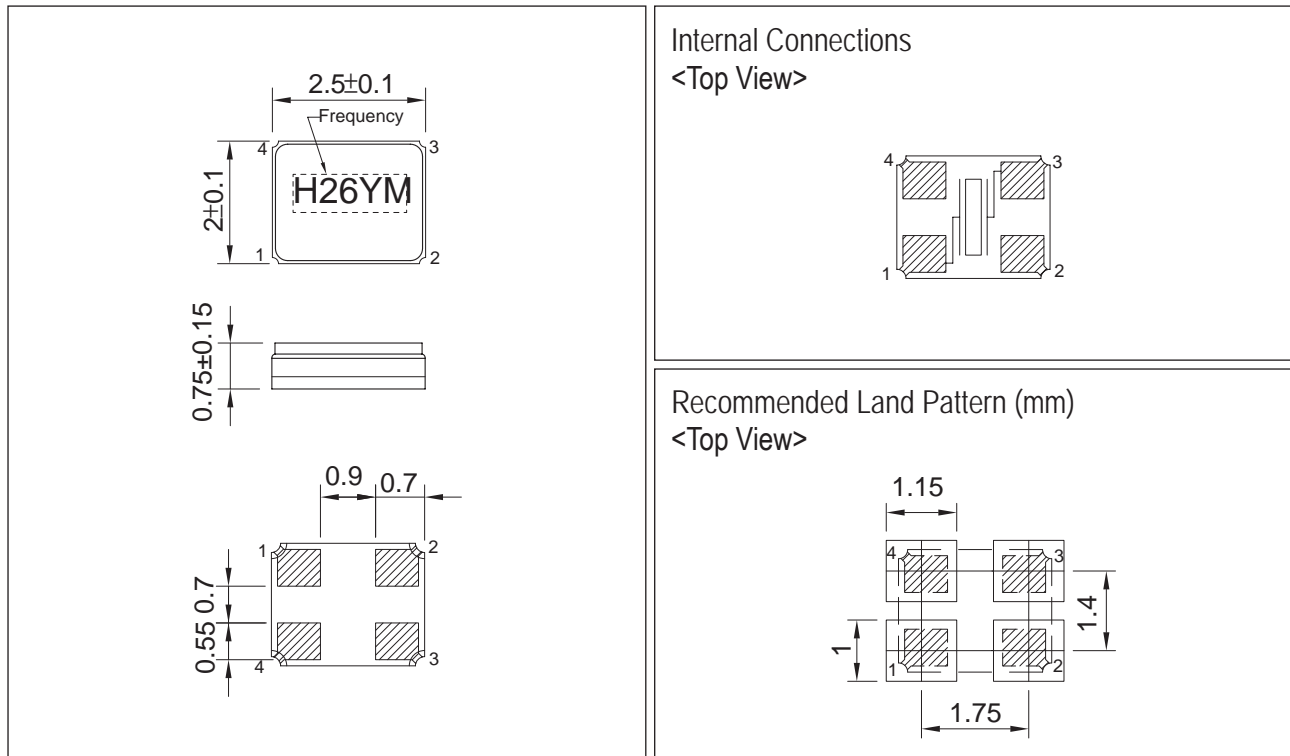


#### Features:

- Miniature SMD type crystal device.
- High precision and reliability with excellent heat resistance.
- Common solution for non-RF applications with limited design space such wireless controller devices and other portable consumer products.



#### Dimension (mm):



#### Standard Specification:

ITEM	TYPE	HSX221G			
		12MHz	12~16MHz	20~30MHz	54MHz
Frequency Range		12MHz	12~16MHz	20~30MHz	54MHz
Mode		Fundamental			
Frequency Tolerance		$\pm 7\text{ppm} \sim \pm 50\text{ppm}$ (at. $25^\circ\text{C}$ ), or Specify			
Frequency Stability over Operating Temperature Range		$\pm 10\text{ppm}, \pm 15\text{ppm}$ , or Specify			
Operating Temperature		$-10 \sim +60^\circ\text{C}$ , or Specify			
Load Capacitance		Series, 8pF, 10pF, 12pF, or Specify			
Drive Level		$10\mu\text{W}$ ( $100\mu\text{W}$ Max.)			
Equivalent Series Resistance		300ΩMax.	150ΩMax.	100ΩMax.	80ΩMax.
Storage Temp. Range		$-40 \sim +125^\circ\text{C}$			

\*Packing Unit: 3,000pcs/Reel.