

Crystal Unit



YSX221SL Small Size



Applications Features

- Smart Wearable
- TWS
- IOT
- Dimensions: 2.50 x 2.05 x 0.55mm
- Standard Frequency: 12 ~ 54MHz
- High Precision and Tight Frequency Stability
- Excellent Heat Resistance and Environmental Characteristics

Specifications (规格参数)

Item	Symbol	Specifications
Nominal Frequency Range (额定频率范围)	f_nom	12 ~ 54MHz, or specify
Vibration Mode (震动模式)	-	AT Fundamental
Load Capacitance (负载电容)	CL	8pF, 10pF, 20pF, or specify
Frequency Tolerance (频率偏差) (at 25°C)	f_tol	±10ppm, ±20ppm, or specify
Frequency Versus Temperature Characteristics (频率-温度特性)	f_tem	±20ppm, or specify
Operating Temperature (工作温度)	T_use	-40~+85°C, or specify
Storage Temperature (储存温度)	T_stg	-55~125°C
Shunt Capacitance (静态电容)	C0	3pF Max
Level of Drive (激励电平)	DL	10~200µW Max (100µW typical)
Aging (老化) (at 25°C)	f_age	±3ppm/year Max

Equivalent Series Resistance (等效串联电阻(ESR))

YSX221SL	
12 ~ 14MHz	150Ω Max
15 ~ 30MHz	100Ω Max
31 ~ 48MHz	60Ω Max
49 ~ 54MHz	50Ω Max

Dimensions and Recommended Land Pattern (外观尺寸及推荐焊盘)

Dimensions (Unit: mm)	Recommended Land Pattern (Unit: mm)
<p>Top View</p> <p>Side View</p> <p>Bottom View</p>	<p>Top View Crystal Connection</p> <p>Top View Suggested Layout</p>