Crystal Unit

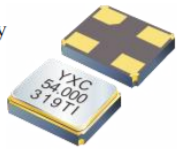
YSX221SL Small Size

Applications

- Smart Wearable
- TWS
- IOT

Features

- Dimensions: 2.50 x2.05 x 0.55mm
- Standard Frequency: 12 ~ 54MHz
- High Precision and Tight Frequency Stability
- Excellent Heat Resistance and Environmental Characteristics



Specifications (规格参数)

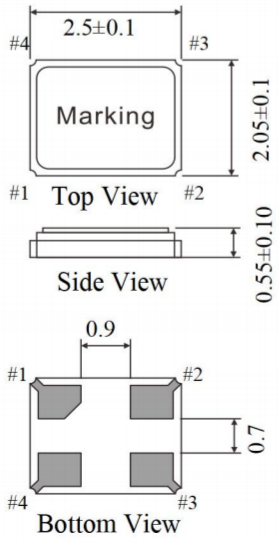
Item	Symbol	Specifications
Nominal Frequency Range 额定频率范围	f_nom	12 ~ 54MHz, or specify
Vibration Mode 震动模式	-	AT Fundamental
Load Capacitance 负载电容	CL	8pF, 10pF, 20pF, or specify
Frequency Tolerance 频率偏差 (at 25°C)	f_tol	±10ppm, ±20ppm, or specify
Frequency Versus Temperature Characteristics 频率-温度特性	f_tem	±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

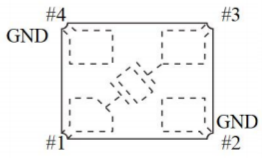
Equivalent Series Resistance (等效串联电阻(ESR))

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

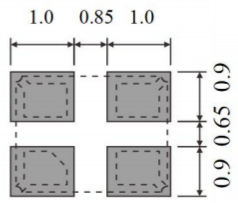
Dimensions and Recommended Land Pattern (外观尺寸及推荐焊盘)

Dimensions (Unit: mm)	Recommended Land Pattern (Unit: mm)





Top View Crystal Connection



Top View Suggested Layout