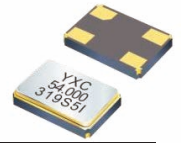


# Crystal Unit

## YSX531SL



### Applications

- Industrial Control
- Consumer Electronics

### Features

- Dimensions: 5.00 x 3.20 x 0.85mm
- Standard Frequency: 8 ~ 54MHz

- High Precision and Tight Frequency Stability
- EMI Reduction

## Specifications (规格参数)

Item	Symbol	Specifications
Nominal Frequency Range (额定频率范围)	f_nom	8 ~ 54MHz
Vibration Mode (震动模式)	-	AT Fundamental
Load Capacitance (负载电容)	CL	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	5pF 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))

YSX531SL	
8 ~ 12MHz	60~80Ω Max
13 ~ 25MHz	40~60Ω Max
26 ~ 54MHz	30~40Ω 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: 5.0±0.15 x 3.2±0.15</p> <p>Side View: 0.85±0.20</p> <p>Bottom View: 2.6 x 1.4</p>	<p>Top View Crystal Connection: GND, 1, 2, 3, 4</p> <p>Top View Suggested Layout: 2.0, 1.7, 2.0, 1.2, 1.0, 1.2</p>