

Crystal Unit

AEC-Q200

YSX221SC



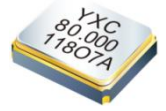
Applications

- Automotive
- Industrial

Features

- Dimensions: 2.50 x 2.05 x 0.55mm
- Standard Frequency: 12 ~ 80MHz

- High Precision and Tight Frequency Stability
- AEC-Q200 Qualified



Specifications (规格参数)

Item	Symbol	Specifications
Nominal Frequency Range (额定频率范围)	f_nom	12 ~ 80MHz, or specify
Vibration Mode (震动模式)	-	AT Fundamental
Load Capacitance (负载电容)	CL	8pF, 10pF, or specify
Frequency Tolerance (频率偏差) (at 25°C)	f_tol	±10ppm, ±30ppm, or specify
Frequency Versus Temperature Characteristics (频率-温度特性)	f_tem	±50ppm, or specify
Operating Temperature (工作温度)	T_use	-40~+125°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	±2ppm/year Max

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

YSX221SC	
12 ~ 15MHz	180Ω Max
16 ~ 20MHz	150Ω Max
21 ~ 30MHz	100Ω Max
31 ~ 80MHz	60Ω 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: 2.5±0.05 mm width, 2.05±0.05 mm height, pins 1, 2, 3, 4. Marking area.</p> <p>Side View: 0.55±0.10 mm thickness.</p> <p>Bottom View: 0.9 mm pin spacing, 0.7 mm pin width.</p>	<p>Top View Crystal Connection: Shows electrical connections to pins 1, 2, 3, 4 and GND.</p> <p>Top View Suggested Layout: Shows pad dimensions: 1.0 mm between pads, 0.85 mm pad width, 0.9 mm pad height, and 0.65 mm between pads.</p>