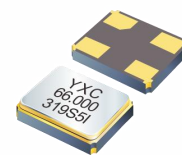


# Crystal Unit

## AEC-Q200

### YSX321SC



#### Applications

- GPS Automotive electronics

#### Features

- Dimensions: 3.20 x 2.50 x 0.70 mm..
- Standard Frequency: 8~66MHz
- Low impedance performance.
- AEC-Q200 qualified

### Specifications (规格参数)

Item	Symbol	Specifications
Nominal Frequency Range (额定频率范围)	f_nom	8~66MHz
Vibration Mode (震动模式)	-	AT Fundamental
Load Capacitance (负载电容)	CL	8pF, 12pF, 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	1~200μW Max.(100μW typical)
Aging (老化) (at 25°C)	f_age	±2ppm/year Max.

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

YSX321SC			
8 ~ 9.9MHz	800 Ω Max.	13 ~ 15.9MHz	80ΩMax.
10 ~ 10.9 MHz	250 Ω Max	16 ~ 20.9 MHz	70ΩMax.
11 ~ 11.9 MHz	150 Ω Max.	21 ~ 29.9 MHz	60ΩMax.
12 ~ 12.9 MHz	100 Ω Max	30 ~ 66.0 MHz	50ΩMax.

### 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: 3.20±0.1, 2.50±0.1, Marking, 1, 2, 3, 4</p> <p>Side View: 0.7±0.1</p> <p>Bottom View: 1.2, 0.7, 1, 2, 3, 4</p>	<p>Top View Crystal Connection: 1, 2, 3, 4, GND</p> <p>Top View Suggested Layout: 1.4, 0.8, 1.4, 1.2, 0.5, 1.2</p>