

Crystal Unit

AEC-Q200

YSX221SC *Small Size*

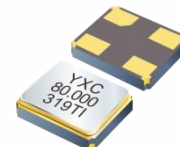


Applications

- GPS Automotive electronics
- Industrial electronics.

Features

- Dimensions: 2.50 x 2.05 x 0.55mm.
- Standard Frequency: 12~80MHz
- High precision and high 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	180 Ω Max.
16 ~ 20MHz	150 Ω Max.
21 ~ 30MHz	100 Ω Max
31 ~ 80MHz	60 Ω 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: 2.5±0.05, 2.05±0.05, 4, 3, 1, 2, Marking Side View: 0.55±0.05 Bottom View: 0.9, 0.7, 1, 2, 4, 3	Top View Crystal Connection: 4, 3, GND, 1, 2, GND Recommended land pattern: 1.0, 0.85, 1.0, 0.9, 0.65