



- Compact and low profile
- Industry Std. Footprint
- Extended Temp Range Option
- RoHS Compliant
- ► 6 x 3.5 mm (2 Pad)
- MSL 1
- ► Lead Finish: Au

ECX-64A SMD QUARTZ CRYSTAL

The ECX-64A is a miniature SMD Crystal with a 3.5 x 6 mm 2 pad footprint. This cost effective with a height of 1.1 mm which is ideal for densely populated PCB applications.

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS		ECX-64		UNITS	
	CONDITIONS	MIN	TYP	MAX		
Frequency Range		8.000		100.00	MHz	
Frequency Tolerance	at +25°C			± 30 *	ppm	
Frequency Stability	-10 to +70°C			± 50 *	ppm	
Shunt Capacitance				7	pF	
Load Capacitance	Specify in P/N	10	20	Series	pF	
Drive Level				100	μW	
Operating Temperature *		-10		+70	°C	
Storage Temperature		-55		+125	°C	
Aging (Per Year)	@ +25°C ±3°C			±5	ppm	

EQUIVALENT SERIES RESISTANCE/MODE OF OSCILLATION

FREQUENCY RANGE (MHz)	MODE OF OSC	MAX ESR Ω	FREQUENCY RANGE (MHz)	MODE OF OSC	MAX ESR Ω
8.000 ~ 15.999	Fundamental	80	20.000 ~ 49.999	Fundamental	30
16.000 ~ 19.999	Fundamental	60	50.000 ~ 100.000	3rd Overtone	100

DIMENSIONS (mm)

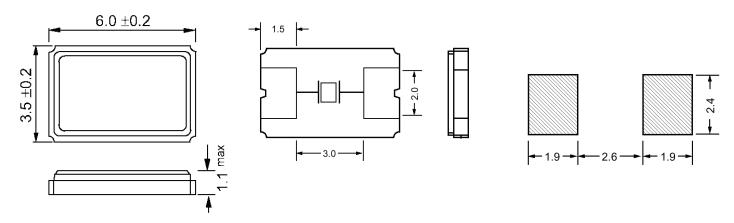


Figure 1) Top, Side, and Bottom views

Figure 2) Suggested Land Pattern

PART NUMBERING GUIDE: Example ECS-200-20-23A-TR

ECS - Frequency Abbreviation - Load Capacitance - Package

200 = 20.000 MHz See P/N Guide 20 =20 pF S=Series 23A = ECX-64A

