



- ► Low profile
 - ► 4.0 x 2.5 mm Footprint
- Extended Temp Range Option
- RoHS Compliant

ECX-42

SMD QUARTZ CRYSTAL

The miniature ECX-42 is a compact SMD Crystal. The $4.0 \times 2.5 \times 0.8$ mm ceramic package is ideal for today's SMD manufacturing environment.

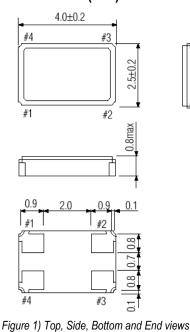
OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

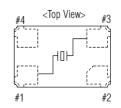
PARAMETERS	ARAMETERS CONDITIONS		ECX-42		UNITS	
FARAIVIETERS CONDITIONS	MIN	TYP	MAX			
Frequency Range		12.000		50.000	MHz	
Frequency Tolerance at +25°C				± 30 *	ppm	
Frequency Stability	-10 to +70°C			± 50 *	ppm	
Shunt Capacitance				5	pF	
Load Capacitance	Specify in P/N		12		pF	
Drive Level				300	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
12.00 ~ 15.999	Fundamental	80	20.000 ~ 23.999	Fundamental	50
16.000 ~ 19.999	Fundamental	60	24.000 ~ 50.000	Fundamental	40

DIMENSIONS (mm)





Pad Connections			
1	In/Out		
2	Gnd		
3	Out/In		
4	Gnd		

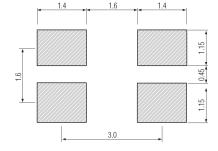
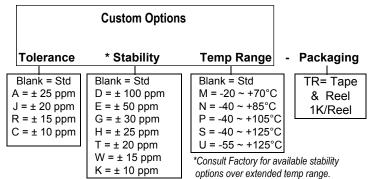


Figure 2) Suggested Land Pattern

PART NUMBERING GUIDE: Example ECS-200-20-42-TR

ECS - Frequency Abbreviation - Load Capacitance - Package

200 = 20.000 MHz See P/N Guide 20 =20 pF S=Series 42 = ECX-42



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