



- Compact and low profile
- **Industry Std. Footprint**
- **Extended Temp Range Option**
- **RoHS Compliant**

ECX-53B SMD QUARTZ CRYSTAL

The ECX-53B is a miniature SMD Crystal with a 3.2 x 5 mm footprint. This package is ideal for todays compact wireless applications where board space is critical.

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS		ECX-53E	3	UNITS	
		MIN	TYP	MAX		
Frequency Range		8.000		150.000	MHz	
Frequency Tolerance	at +25°C			± 30 *	ppm	
Frequency Stability	-20 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		-20		+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
8.00 ~ 9.999	Fundamental	100	20.000 ~ 23.999	Fundamental	40
10.000 ~ 15.999	Fundamental	80	24.000 ~ 50.000	Fundamental	30
16.000 ~ 19.999	Fundamental	50	50.100 ~ 150.000	3rd Overtone	80

DIMENSIONS (mm)

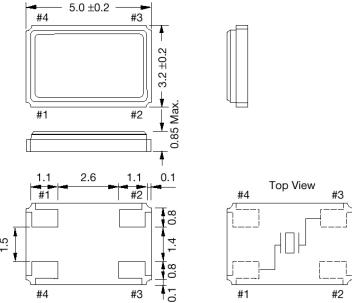


Figure 1) Top, Side, Bottom and End views

2.1 3.7

Figure 2) Suggested Land Pattern

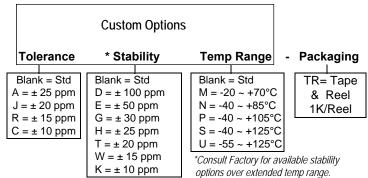
PART NUMBERING GUIDE: Example ECS-200-20-30B-TR

ECS - Frequency Abbreviation - Load Capacitance - Package

200 = 20.000 MHz See P/N Guide

20 =20 pF S=Series

30B = ECX-53B



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