

The ECX-33B2Q is a miniature SMD Crystal with a 3.2 x 2.5 mm footprint. AEC-Q200 Qualified.

ECX-33B2Q SMD CRYSTAL

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ECX-33B2Q SMD CRYSTAL



- Low Profile
- 3.2 x 2.5 mm Footprint
- RoHS Compliant
- AEC-Q200 Qualified

DIMENSIONS (mm)

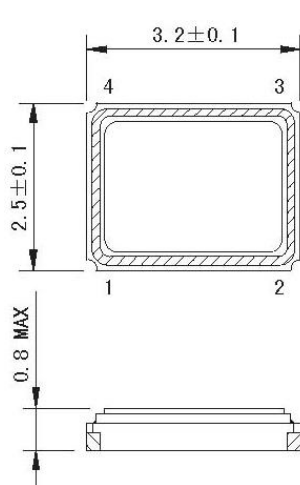


Figure 1) Top, Side, and Bottom

Crystal is symmetrical, pad 1 & 3 are interchangeable.
Chamfer on the bottom pad has no electrical significance and can be on pad 1 or 4.

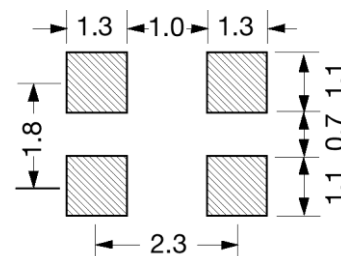
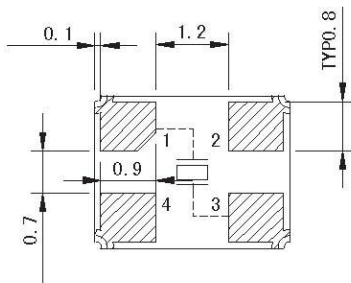


Figure 2) Suggested land

PARAMETERS	CONDITIONS	ECX-33B2Q			UNITS
		MIN	TYP	MAX	
Frequency		8.000		54.000	MHz
Mode of Oscillation	Fundamental				
Frequency Tolerance*	@+25°C			± 30	ppm
Frequency Stability*	-40 ~ +150°C (VY Option)			± 150	ppm
Shunt Capacitance	Co			2	pF
Load Capacitance	Specify in P/N		8		pF
Drive Level	DL			200	μW
Operating Temperature*	T _{opr} (VY Option)	-40		+150	°C
Storage Temperature	T _{stg}	-55		+150	°C
Aging (First Year)	@ +25°C ±3°C			±2	ppm

Frequency (MHz)	ESR Ω Max.
8.000 ~ 9.999	500
10.000 ~ 15.999	100
16.000 ~ 19.999	70
20.000 ~ 25.999	50
26.000 ~ 54.000	35

Pad Connections

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

PART NUMBERING GUIDE: Example ECS-200-8-33B2Q-VY-TR3

ECS - FREQUENCY ABBREVIATION		LOAD CAPACITANCE	PACKAGE	AVAILABLE OPTIONS			PACKAGING
				Tolerance	Stability	Temp Range	
ECS	200 = 20.000 MHz See P/N Guide	8 = 8 pF 10 = 10 pF 18 = 18 pF S = Series	33B2Q = ECX-33B2Q	Blank = ±30 ppm A = ± 25 ppm J = ± 20 ppm R = ± 15 ppm C = ± 10 ppm	V=±150 ppm D=±100 ppm + E = ± 50 ppm + G = ± 30 ppm + H = ± 25 ppm + T = ± 20 ppm + W = ±15 ppm + K = ± 10 ppm +	L = -10 ~ +70°C M = -20 ~ +70°C N = -40 ~ +85°C P = -40 ~ +105°C S = -40 ~ +125°C U = -55 ~ +125°C Y = -40 ~ +150°C	TR =1K TR3=3K Qty/Reel
* Specify available options in P/N.							
† Contact ECS for availability over extended temp range							
Rev.2024							

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† Contact ECS for availability over extended temp range.

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[12.000MHZ-18-R80-D2Y-T](#) [FKT26EIHQ0.032768-BAG1K](#) [FC4STCBMF10.0](#) [FO3HSKDM33.333-T1](#) [MS1V-T1K-32.768kHz-9pF-20PPM-](#)
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