

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

ECX-33Q SMD CRYSTAL

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ECX-33Q SMD CRYSTAL



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

DIMENSIONS (mm)

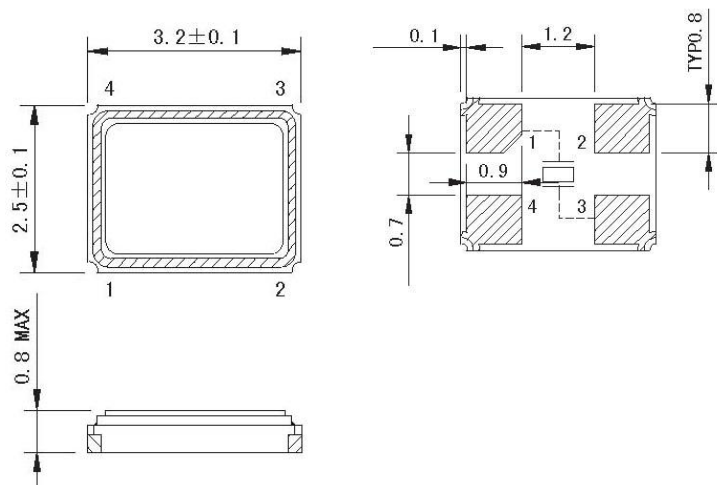


Figure 1) Top, Side, and Bottom

Crystal is symmetrical, pads 1 & 3 are interchangeable.
Chamfer on the bottom pad has no electrical significance.

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS	ECX-33Q			UNITS
		MIN	TYP	MAX	
Frequency		8.000		54.000	MHz
Mode of Oscillation	Fundamental				
Frequency Tolerance*	@ +25°C			± 30	ppm
Frequency Stability*	-55 ~ +125°C (DU Option)			± 100	ppm
Shunt Capacitance	Co			7	pF
Load Capacitance	Specify in P/N	6	20	Series	pF
Drive Level	DL			100	μW
Operating Temperature*	T _{opr} (DU Option)	-55		+125	°C
Storage Temperature	T _{stg}	-55		+125	°C
Aging (First Year)	@ +25°C ±3°C			±5	ppm

Frequency (MHz)	ESR Ω Max.
8.000 ~ 9.999	500
10.000 ~ 15.999	100
16.000 ~ 19.999	80
20.000 ~ 23.999	60
24.000 ~ 54.000	40

Pad Connections

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

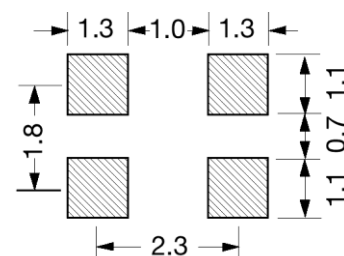


Figure 2) Suggested land

PART NUMBERING GUIDE: Example ECS-200-20-33Q-DU-TR

ECS - FREQUENCY ABBREVIATION		LOAD CAPACITANCE	PACKAGE	AVAILABLE OPTIONS			PACKAGING
				Tolerance	Stability	Temp Range	
ECS	200 = 20.000 MHz See P/N Guide	20 = 20 pF 10 = 10 pF S = Series	33Q = ECX-33Q	Blank = ±30 ppm A = ± 25 ppm J = ± 20 ppm R = ± 15 ppm C = ± 10 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 Y = -30 ~ +85°C N = -40 ~ +85°C P = -40 ~ +105°C S = -40 ~ +125°C U = -55 ~ +125°C	TR =1K++ TR3=3K Qty/Reel

* Specify available options in P/N.

† Contact ECS for availability over extended temp range.

++ 1ES TR & 1EN TR 3K/Reel

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* Specify available options in P/N.

† Contact ECS for availability over extended temp range.

†† JES-TR & JEN-TR 3K/Reel

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[S6144000BBKB](#) [FC3BSHHEF32.0-T3](#) [ABM3C-25.000MHZ-E4Y-T](#) [49SMLB12.0000-18HJE-E\(T\)](#) [ABM8G-12.000MHZ-D4Y-T](#) [ABM8G-](#)
[12.000MHZ-18-R80-D2Y-T](#) [FKT26EIHQ0.032768-BAG1K](#) [FC4STCBMF10.0](#) [FO3HSKDM33.333-T1](#) [MS1V-T1K-32.768kHz-9pF-20PPM-](#)
[TA-QC-Au](#) [NX8045GB-8MHZ-STD-CSF-4](#) [NX8045GB-12.000000MHZ-LN-CF-001](#) [CXA-014745-6X7X40](#) [K6A480002020](#)
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