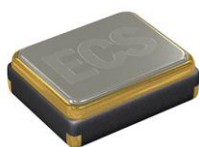


The ECX-33AQ is a miniature 2 pad SMD Crystal with a 3.2 x 2.5 mm footprint. AEC-Q200 Qualified.

ECX-33AQ SMD CRYSTAL

[Request a Sample](#)

ECX-33AQ SMD CRYSTAL



© ECS, Inc. International

- Low Profile
- 3.2 x 2.5 mm 2 pad Footprint
- RoHS Compliant
- AEC-Q200 Qualified

DIMENSIONS (mm)

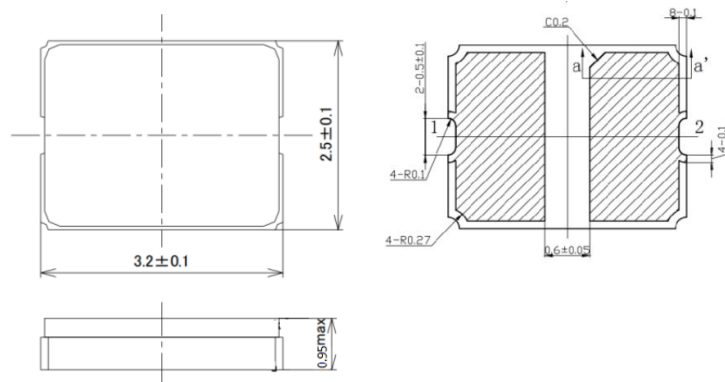


Figure 1) Top, Side, and Bottom

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS	ECX-33AQ			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*	Topr (VY Option)	-40		+150	°C
Storage Temperature	Tstg	-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	Out/In

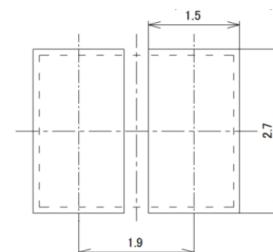


Figure 2) Suggested land

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

ECS - FREQUENCY ABBREVIATION		LOAD CAPACITANCE	PACKAGE	AVAILABLE OPTIONS			PACKAGING
				Tolerance Range	Stability	Temp	
ECS	200 = 20.000 MHz See P/N Guide	8 = 8 pF 10 = 10 pF 12 = 12 pF	33AQ = ECX-33AQ	Blank = ±50 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							

* Specify available options in P/N.

† Contact ECS for availability over extended temp range.

Rev.2024

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[CM315D32768EZFT](#) [C1E-19.200-12-1530-X-R](#) [C1E-16.000-12-1530-X-R](#) [425F35E027M0000](#) [FP0800018](#) [MS3V-T1R-32.768kHz-7pF-](#)
[20PPM-TA-QC-Au](#) [VXM7-1C1-16M000](#) [MS3V-T1R-32.768kHz-9pF-20PPM-TA-QC-Au](#) [17000](#) [17301](#) [12.87114](#) [C1E-48.000-10-1530-X-R](#)
[C3E-48.000-10-1530-X-R](#) [FC5BSHFEM25.0-T1](#) [FC5AQCCMF10.0-T1](#) [32.768K7PI/3215E](#) [FC-12M 32.7680KD-A0](#) [HC-49/U-](#)
[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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