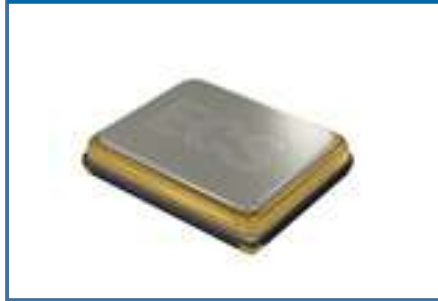


The sub miniature ECX-1637B2 is a very compact SMD Crystal. The 2.0 x 1.6 x 0.45 mm ceramic package is ideal for wireless applications.

[Request a Sample](#)

ECX-1637B2 SMD CRYSTAL



- Low 1st Year Aging ± 2 ppm Max.
- 2.0 x 1.6 mm Footprint
- Extended Temp. Range Option
- RoHS Compliant

DIMENSIONS (mm)

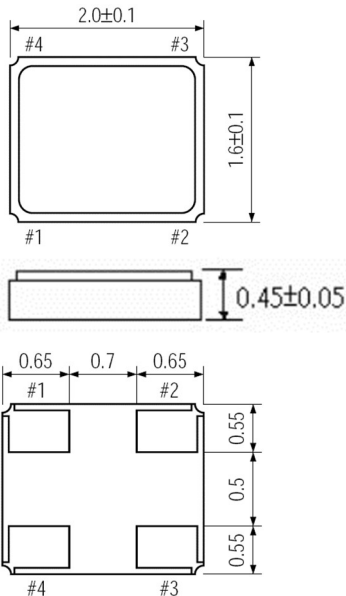
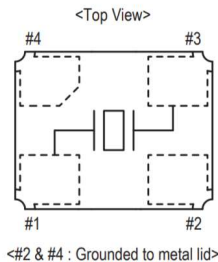


Figure 1) Top, Side, and Bottom

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

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS	ECX-1637B2			UNITS
		MIN	TYP	MAX	
Frequency		16.000		50.000	MHz
Mode of Oscillation	Fundamental				
Frequency Tolerance*	@ +25°C (C option)			± 10	ppm
Frequency Stability*	-30 ~ +85°C (KY option)			± 10	ppm
Shunt Capacitance	Co			3	pF
Load Capacitance	Specify in P/N		8		pF
Drive Level	DL			100	μ W
Operating Temperature*	T _{opr} (Y option)	-30		+85	°C
Storage Temperature	T _{stg}	-55		+125	°C
Aging (First Year)	@ +25°C ± 3 °C			± 2	ppm



Pad Connections

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

Frequency (MHz)	ESR Ω Max.
16.000 ~ 19.999	150
20.000 ~ 23.999	70
24.000 ~ 39.999	50
40.000 ~ 50.000	40

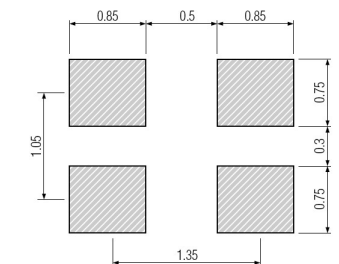


Figure 2) Suggested land

PART NUMBERING GUIDE: Example ECS-240-8-37B2-CKY-TR

ECS - FREQUENCY ABBREVIATION		LOAD CAPACITANCE	PACKAGE	AVAILABLE OPTIONS			PACKAGING
				Tolerance	Stability	Temp Range	
ECS	240 = 24.000 MHz See P/N Guide	8 = 8 pF 10 = 10 pF S=Series	-37B2 = ECX-1637B2	Blank = Std A = ± 25 ppm J = ± 20 ppm R = ± 15 ppm C = ± 10 ppm 7 = ± 7 ppm	Blank= Std D= ±100 ppm E = ± 50 ppm G = ± 30 ppm H = ± 25 ppm T = ± 20 ppm † W = ±15 ppm † K = ± 10 ppm †	Blank= Std L = -10 ~ +70°C M = -20 ~ +70°C Y = -30 ~ +85°C N = -40 ~ +85°C P = -40 ~ +105°C S = -40 ~ +125°C	TR = Tape & Reel 3K/Reel
* Specify available options in P/N.							
† Contact ECS for availability over extended temp range.							
Rev.2021							

* Specify available options in P/N.

$\dagger$ Contact ECS for availability over extended temp range.

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[XT9SNLANA16M](#) [049LF-40-3](#) [6504-202-1501](#) [6526-202-1501](#) [ABM3B-24.000MHZ-R60-D1W-](#) [SG636PCE-20.000MC](#) [3404](#)
[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](#)
[SX32Y025000FI1T](#) [SX25Y040000BF1T002](#) [SX32Y048000BA1T001](#) [3607S-32.768DT09LLL](#) [X1A000161000116](#) [049UT2-4.000F07DTJGL](#)