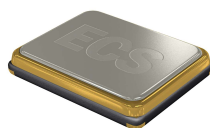


The ultra-miniature ECX-1048B is our smallest compact Crystal. The 1.2 x 1.0 x 0.35 mm ceramic package is ideal for today's SMD manufacturing environment.

ECX-1048B SMD CRYSTAL

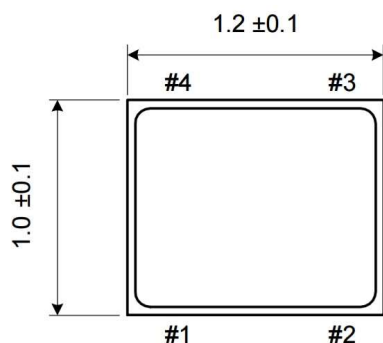
[Request a Sample](#)

ECX-1048B SMD CRYSTAL



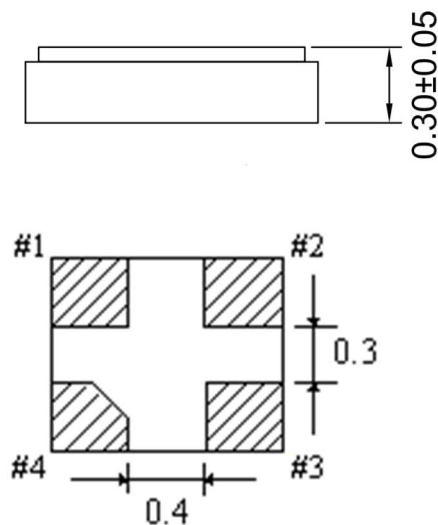
- Low Profile
- 1.2 x 1.0 mm Footprint
- Extended Temp. Range
- RoHS Compliant
- IOT/Wearable Applications

DIMENSIONS (mm)



PAD CONNECTIONS	
1	In/Out
2	Gnd or N/C
3	Out/In
4	Gnd or NC

Figure 1) Top, Side, and Bottom views



(Bottom View)

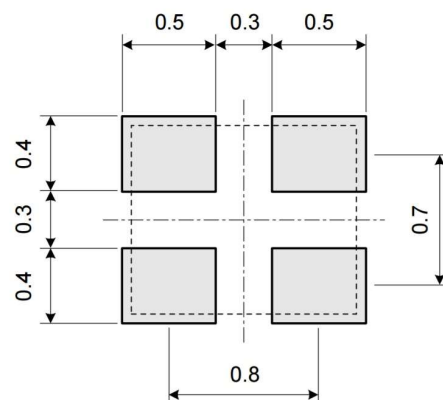


Figure 2) Suggested Land Pattern

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS	ECX-1048B			UNITS
		MIN	TYP	MAX	
Frequency		32.000		60.000	MHz
Frequency Tolerance	@ +25°C (C)			± 10	ppm
Frequency Stability	-40 ~ +85°C (TN)			± 20	ppm
Equivalent Series Resistance (ESR)	32 ~ 47.9 MHz			100	Ω
	48.0 ~ 60.0 MHz			80	Ω
Shunt Capacitance	Co			3	pF
Load Capacitance	Specify in P/N		10		pF
Drive Level	DL		10	100	μW
Operating Temperature	T _{opr}	-40		+85	°C
Storage Temperature	T _{stg}	-40		+105	°C
Aging (First Year)	@ +25°C ±3°C			±2	ppm

PART NUMBERING GUIDE: Example ECS-480-10-48B-CTN-TR

ECS - FREQUENCY ABBREVIATION	LOAD CAPACITANCE	PACKAGE	Tolerance	CUSTOM OPTIOND * Stability	Temp Range	PACKAGING
ECS	480 = 48.000 MHz See P/N Guide	10 = 10 pF * Other CL's available	-48B = ECX-1048B	A = ± 25 ppm J = ± 20 ppm R = ± 15 ppm C = ± 10 ppm	E = ± 50 ppm G = ± 30 ppm H = ± 25 ppm T = ± 20 ppm W = ± 15 ppm *K = ± 10 ppm	M = -20 ~ +70°C Y = -30 ~ +85°C N = -40 ~ +85°C
						TR = 3K/Reel TR5 = 5K/Reel

*Contact ECS for availability

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](#)
[SX32Y025000FI1T](#) [SX25Y040000BF1T002](#) [SX32Y048000BA1T001](#) [3607S-32.768DT09LLL](#) [X1A000161000116](#) [049UT2-4.000F07DTJGL](#)