

The ultra-miniature 4-Pad ECX-1210B is a very compact SMD Tuning Fork Crystal. The 1.2 x 1.0 x 0.35 mm ceramic package is the smallest in it's class. This is very popular with small wearables and medical devices.

ECX-1210B SMD CRYSTAL



- Low Power RTC Applications such as STM32 [AN2867](#)
- 1.2 x 1.0 mm Footprint
- Extended Temp. Range
- RoHS Compliant
- Applications: Smartphones, wireless modules, wearable devices

DIMENSIONS (mm)

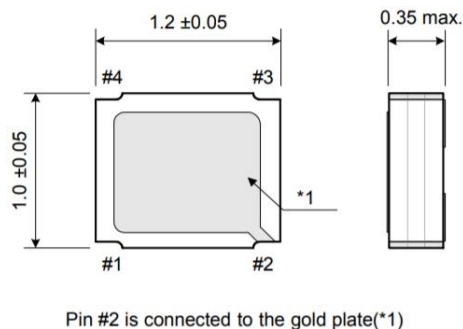


Figure 1) Top, Side, and Bottom views

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS	ECX-1210B			UNITS
		MIN	TYP	MAX	
Frequency			32.768		KHz
Frequency Tolerance*	@ +25°C			± 20	ppm
Load Capacitance	Specify in P/N		12.5		pF
Drive Level	DL			1.0	μW
Equivalent Series Resistance	R1			80K	Ω
Turnover Temperature		+20	+25	+30	°C
Temperature Coefficient		-0.02	-0.03	-0.04	ppm/°C ²
Shunt Capacitance	Co		1.5		pF
Aging (First Year)	@ +25°C ±3°C			±3	ppm
Operating Temperature*	T _{opr}	-40		+105	°C
Storage Temperature	T _{stg}	-40		+105	°C

* Specify options in part number

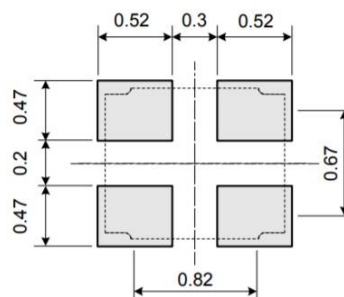
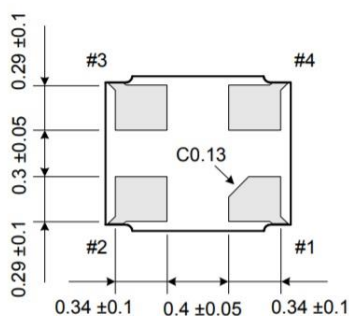


Figure 2) Suggested Land Pattern

PAD CONNECTIONS

#1	In/Out
#2	Ground
#3	Out/In
#4	No Connect

PART NUMBERING GUIDE: Example ECS-.327-12.5-1210B-CN-TR

ECS - FREQUENCY ABBREVIATION		LOAD CAPACITANCE	PACKAGE	CUSTOM OPTIONS Tolerance	Operating Temp	PACKAGING
ECS	.327 = 32.768 KHz	12.5 = 12.5 pF 9 = 9 pF 7 = 7 pF 6 = 6 pF	-1210B = ECX-1210B	Blank = ±20 ppm * C = ± 10 ppm	M = -20 ~ +70°C N = -40 ~ +85°C P = -40 ~ +105°C	TR = Tape & Reel 5K/Reel

* Contact ECS for availability

Rev.2020

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