

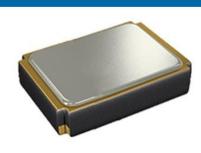
The ultra-miniature 2-Pad ECX-1210 is a very compact SMD Tuning Fork Crystal. The 1.2 x 1.0 x 0.5 mm **smallest** in it's class ceramic package is ideal for LoRa Wan, wearable devices, IoT, and medical applications.

# ECX-1210 32.768 KHz SMD Tuning Fork Crystal



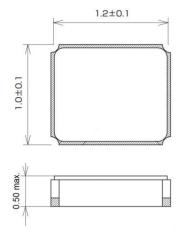
Request a Sample

#### ECX-1210 SMD CRYSTAL



- Low Power RTC Applications such as STM32 <u>AN2867</u>
- 1.2 x 1.0 mm Footprint
- Extended Temp. Range
- RoHS Compliant
- Applications: Automotive, COTS, Industrial, IOT

## **DIMENSIONS (mm)**



	-	>
1		
0.89		
V		
	0.35	2-C0.15

0.75

PAD CONNECTIONS					
1	In/Out				
2	Out/In				

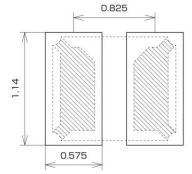


Figure 2) Suggested Land Pattern

Figure 1) Top, Side, and Bottom views

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

ECS - FREQUENCY ABBREVIATION	LOAD CAPACITANCE	PACKAGE	CUSTOM OPTIONS Tolerance	PACKAGING
ECS .327 = 32.768 KHz	12.5 = 12.5 pF 9 = 9 pF 7 = 7 pF 6 = 6 pF	-1210 = ECX-1210	Blank = ±20 ppm * C = ± 10 ppm	TR = Tape & Reel 5K/Reel

\*Contact ECS for availability

Rev.2021

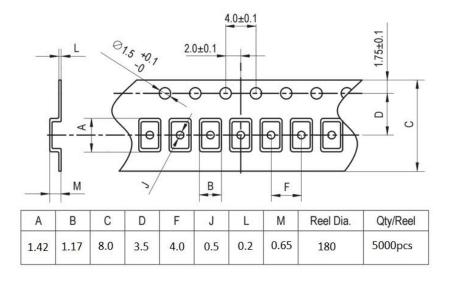
# AL OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS PARAMETERS CONDITIONS ECX-1210 UNITS MIN TYP MAX

PARAIVIETERS	CONDITIONS	ECX-1210			UNITS
		MIN	ТҮР	MAX	
Frequency			32.768		KHz
Frequency Tolerance	@ +25°C			± 20 *	ppm
Load Capacitance	Specify in P/N		12.5		рF
Drive Level	DL		0.1	0.5	μW
Equivalent Series Resistance	R1			90K	Ω
Turnover Temperature		+20	+25	+30	°C
Temperature Coefficient		-0.02	-0.03	-0.040	ppm/°C²
Shunt Capacitance	Со		1.1		рF
Aging (First Year)	@ +25°C ±3°C			±3	ppm
Operating Temperature	Topr	-40		+85	°C
Storage Temperature	Tstg	-40		+85	°C





## **POCKET TAPE DIMENSIONS (mm)**





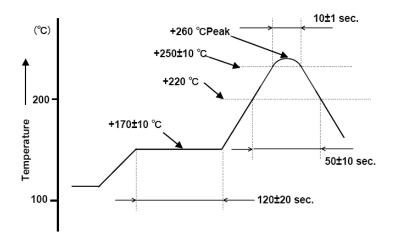


Figure 1) Suggested Reflow Profile

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