

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**



UNITS

ppm

°C

°C

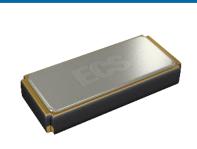
Request a Sample

-40

-40

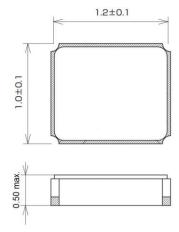
ECX-1210

ECX-1210 SMD CRYSTAL



- Low Power RTC Application such as STM32 AN2867
- 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	2-00.15
	0.35	2-CO.15

0 75

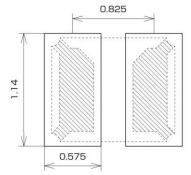
PARAMETERS

Aging (First Year)

Operating Temperature

Storage Temperature

PAD CONNECTIONS				
1	In/Out			
2	Out/In			



±3

+85

+85

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	-1210 = ECX-1210	Blank = ±20 ppm * C = ± 10 ppm	TR = Tape & Reel 5K/Reel

*Contact ECS for availability

Rev.2019

			MIN	ТҮР	MAX	
	Frequency			32.768		KHz
	Frequency Tolerance	@ +25°C			± 20 *	ppm
	Load Capacitance	Specify in P/N		12.5		pF
	Drive Level	DL		0.1	0.5	μW
	Equivalent Series Resistance	R1			90K	Ω
ions	Turnover Temperature		+20	+25	+30	°C
	Temperature Coefficient		-0.02	-0.03	-0.040	ppm/°C²
	Shunt Capacitance	Со		1.1		pF
				1		

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

CONDITIONS

@ +25°C ±3°C

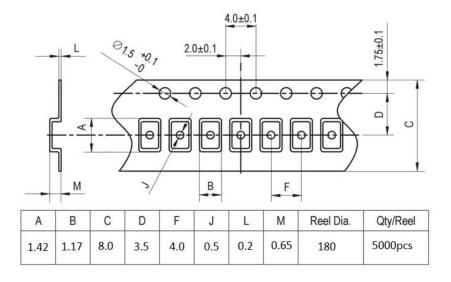
Topr

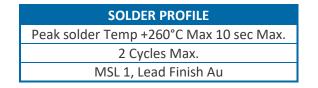
Tstg





POCKET TAPE DIMENSIONS (mm)





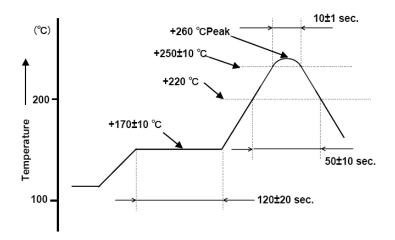


Figure 1) Suggested Reflow Profile