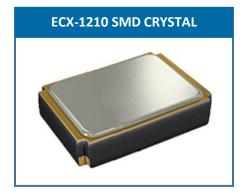


ECX-1210 32.768 KHz SMD Tuning Fork Crystal ECS INC

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

Request a Sample

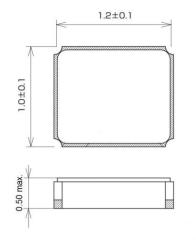


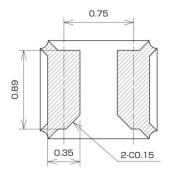
- Low Power RTC Applications such as STM32 AN2867
- 1.2 x 1.0 mm Footprint
- Extended Temp. Range
- RoHS Compliant
- Applications: Automotive, COTS, Industrial, IOT

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS	ECX-1210		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		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		pF	
Aging (First Year)	@ +25°C ±3°C			±3	ppm	
Operating Temperature	Topr	-40		+85	°C	
Storage Temperature	Tstg	-40		+85	°C	

DIMENSIONS (mm)





PAD CONNECTIONS		
1	In/Out	
2	Out/In	

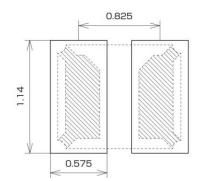


Figure 2) Suggested Land Pattern

Figure 1) Top, Side, and Bottom views

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

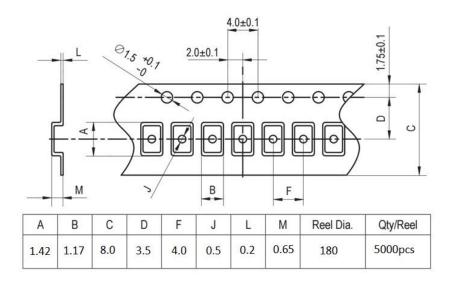
ECS - FREQUENCY ABBREVIATION	LOAD CAPACITANCE	PACKAGE	CUSTOM OPTIONS Tolerance	PACKAGING
ECS .327 = 32.768 KHz	12.5 = 12.5 pF 9 = 9 pF 7 = 7 pF 6 = 6 pF	-1210 = ECX-1210	Blank = ±20 ppm * C = ± 10 ppm	TR = Tape & Reel 5K/Reel

*Contact ECS for availability Rev.2021





POCKET TAPE DIMENSIONS (mm)



SOLDER PROFILE	
Peak solder Temp +260°C Max 10 sec Max.	
2 Cycles Max.	
MSL 1, Lead Finish Au	

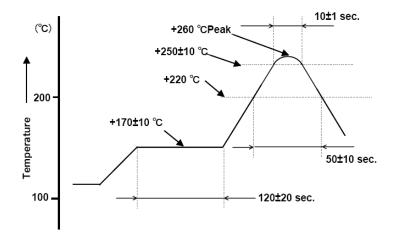


Figure 1) Suggested Reflow Profile

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Click to view products by ECS Inc manufacturer:

Other Similar products are found below:

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