imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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ECX-1210 32.768 KHz SMD Tuning Fork Crystal



UNITS

KHz

ppm

рF

μW

Ω °C

ppm/°C²

pF

ppm

°C

°C

The ultra-minature ECX-1210 is a very compact SMD Tuning Fork Crystal. The $1.2 \times 1.0 \times 0.35$ mm ceramic package is ideal for today's SMD manufacturing environment.

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

MIN

+20

-0.02

-40

-40

ECX-1210

32.768

12.5

0.1

+25

-0.03

1.1

MAX

± 20 *

0.2

90K

+30

-0.040

±3

+85

+85

ΤΥΡ

CONDITIONS

@ +25°C

Specify in P/N

DL

R1

Со

@ +25°C ±3°C

Topr

Tstg



• Low Profile

- 1.2 x 1.0 mm Footprint
- Extended Temp. Range
- RoHS Compliant
- Applications: Automotive, COTS, Industrial, IOT

DIMENSIONS (mm)

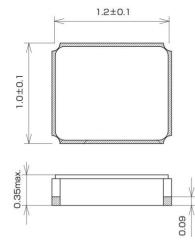
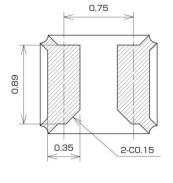


Figure 1) Top, Side, and Bottom views



PARAMETERS

Frequency Tolerance

Turnover Temperature

Shunt Capacitance

Aging (First Year)

Equivalent Series Resistance

Temperature Coefficient

Operating Temperature

Storage Temperature

Load Capacitance

Frequency

Drive Level

PAD CONNECTIONS		
1	In/Out	
2	Out/In	

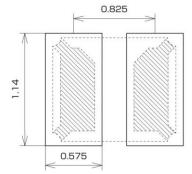


Figure 2) Suggested Land Pattern

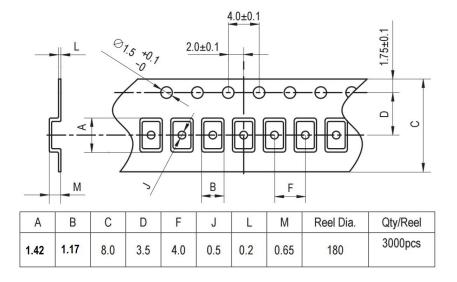
PART NUMBERING GUIDE: Example ECS-.327-12.5-1210-TR

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 3K/Reel





POCKET TAPE DIMENSIONS (mm)



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

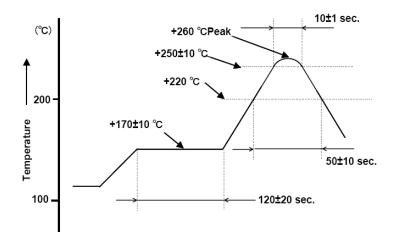


Figure 1) Suggested Reflow Profile