

## ECS-.327-CDX-1082 SMD CRYSTAL

ECS INC

**UNITS** 

KHz

ppm

ppm/°C<sup>2</sup>

рF

рF

μW

Ω

°C.

°C

°C

The ultra-minature ECS-.327-CDX-1082 is a very compact SMD Tuning Fork Crystal. Low ESR part recommended by STMicroelectronics for the STM32 Microcontrollers.

Request a Sample

MIN

-0.028

9,000

+20

-40

-55

CONDITIONS

@ +25°C

Co

DL

R1

Topr

Tstg @ +25°C ±3°C

@ 100Vdc ±15V

**OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS** 

ECS-.327-CDX-1082

32.768

-0.034

1.5

4

0.1

60K

20,000

+25

MAX

+20

-0.040

0.5

80K

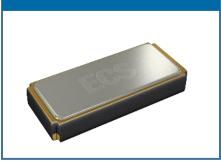
+30

+85

+125

**TYP** 

#### ECS-.327-CDX-1082



- Low Power RTC Applications such as STM32 AN2867
- 2.0 x 1.2 mm Footprint
- Extended Temp. Range
- Low ESR
- RoHS Compliant

# DIMENSIONS (mm)

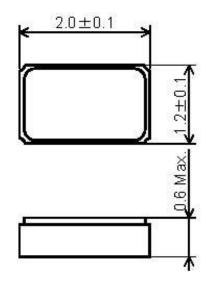
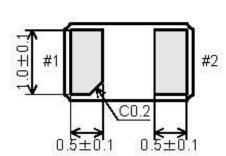


Figure 1) Top, Side, and Bottom views



**PARAMETERS** 

Frequency Tolerance

**Shunt Capacitance** 

**Load Capacitance** 

Drive Level

Crystal Q

**Temperature Coefficient** 

**Equivalent Series Resistance** 

**Turnover Temperature** 

Storage Temperature

Aging (First Year)

Insulation Resistance

**Operating Temperature** 

Frequency

PAD CONNECTIONS	
1	In/Out
2	Out/In

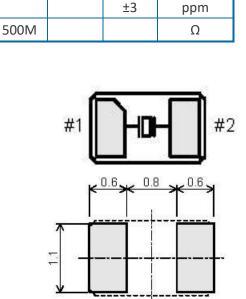


Figure 2) Suggested Land Pattern

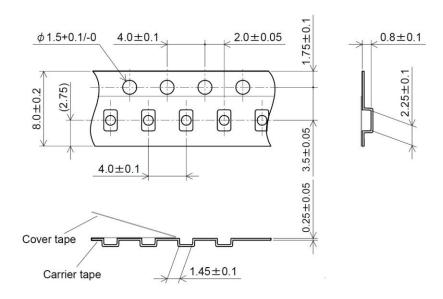
#### PART NUMBER: Example ECS-.327-CDX-1082

P/N ECS-.327-CDX-1082 = 3K/Reel P/N ECS-.327-CDX-1082-TR9 = 9K/Reel

Rev.2022



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



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

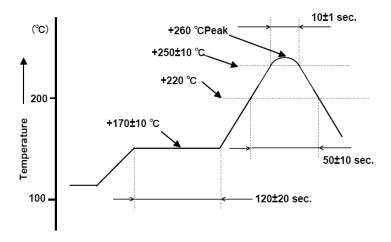


Figure 1) Suggested Reflow Profile