

ECS-.327-CDX-1082 SMD CRYSTAL

MIN

-55

500M

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

ECS-.327-CDX-1082

32.768

MAX

TYP



UNITS

KHz

ppm

Ω

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.

ECS-.327-CDX-1082



- Low Power RTC Applications such as STM32 AN2867
- 2.0 x 1.0 mm Footprint
- Extended Temp. Range
- Low ESR
- RoHS Compliant

DIMENSIONS (mm)

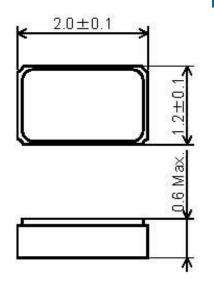


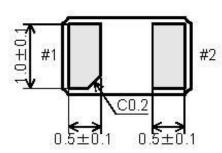
Figure 1) Top, Side, and Bottom views

Frequency Tolerance @ +25°C +20ppm ppm/°C² **Temperature Coefficient** -0.028 -0.034 -0.040 **Shunt Capacitance** Co 1.5 рF Load Capacitance 4 рF Drive Level 0.1 0.5 μW DL **Equivalent Series Resistance** R1 60K 80K Ω 20,000 Crystal Q 9,000 **Turnover Temperature** +20 +25 +30 °C °C **Operating Temperature** -40 +85 Topr °C

CONDITIONS

Tstg @ +25°C ±3°C

@ 100Vdc ±15V



PARAMETERS

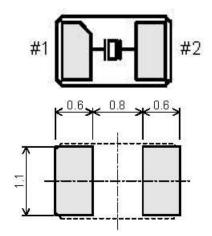
Storage Temperature

Aging (First Year)

Insulation Resistance

Frequency

PAD CONNECTIONS	
1	In/Out
2	Out/In



+125

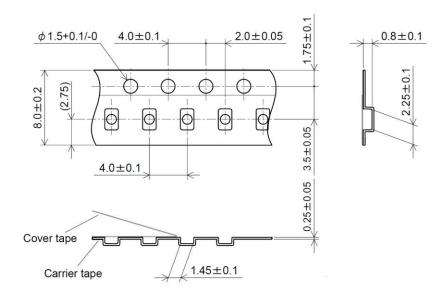
±3

Figure 2) Suggested Land Pattern

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



POCKET TAPE DIMENSIONS (mm)



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

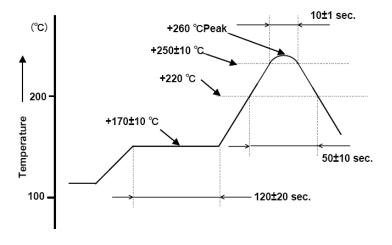


Figure 1) Suggested Reflow Profile