

# ECS-.327-CDX-1082 SMD CRYSTAL

**Request a Sample** 



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.

## **OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS**



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

#### **DIMENSIONS (mm)**

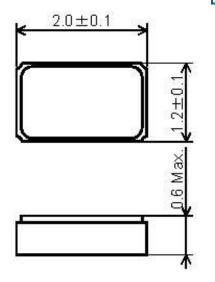
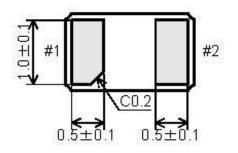


Figure 1) Top, Side, and Bottom views

PARAMETERS	CONDITIONS	ECS327-CDX-1082			UNITS	
		MIN	ТҮР	MAX		
Frequency			32.768		KHz	
Frequency Tolerance	@ +25°C			± 20	ppm	
Temperature Coefficient		-0.028	-0.034	-0.040	ppm/°C²	
Shunt Capacitance	Со		1.5		рF	
Load Capacitance			4		рF	
Drive Level	DL		0.1	0.5	μW	
Equivalent Series Resistance	R1		60K	80K	Ω	
Crystal Q		9,000	20,000			
Turnover Temperature		+20	+25	+30	°C	
Operating Temperature	Topr	-40		+85	°C	
Storage Temperature	Tstg	-55		+125	°C	
Aging (First Year)	@ +25°C ±3°C			±3	ppm	
Insulation Resistance	@ 100Vdc ±15V	500M			Ω	



PAD CONNECTIONS			
1	In/Out		
2	Out/In		

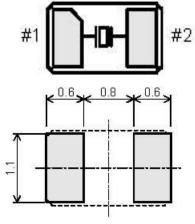


Figure 2) Suggested Land Pattern

## 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)**

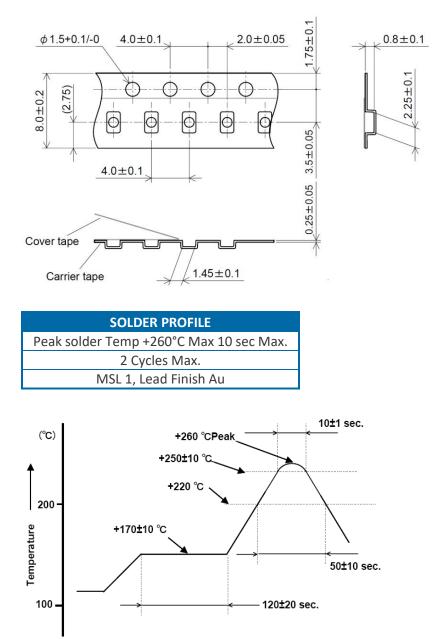


Figure 1) Suggested Reflow Profile

# **Mouser Electronics**

Authorized Distributor

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ECS-.327-CDX-1082 ECS-.327-CDX-1082-TR9