

## 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)**

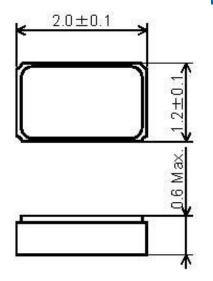
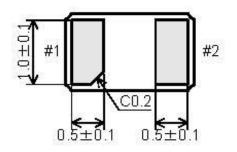


Figure 1) Top, Side, and Bottom views

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	Rı		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	

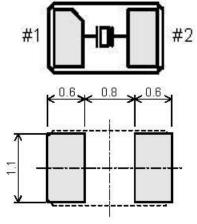


Figure 2) Suggested Land Pattern

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





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

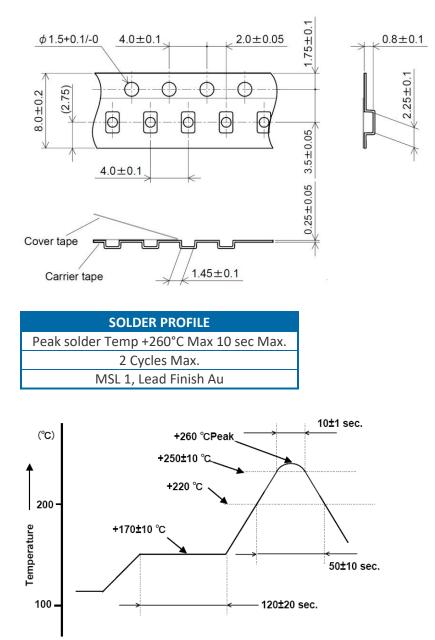


Figure 1) Suggested Reflow Profile

# **Mouser Electronics**

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