

## ECS-.327-CDX-2216 SMD CRYSTAL

ECS INC
INTERNATIONAL®

The ultra-minature ECS-.327-CDX-2216 is a very compact SMD Tuning Fork Crystal with a ESR of  $80 \text{K}\Omega$  and a tolerance of  $\pm 20$  ppm. The  $1.6 \times 1.0 \times 0.5$  mm ceramic package is ideal for IOT applications.

Request a Sample



- Low Profile 0.5 mm Max.
- 1.6 x 1.0 mm Footprint
- ±20 ppm tolerance @ +25°C
- Extended Temp. Range
- RoHS Compliant
- Low Power RTC Applications such as STM32 AN2867

## **OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS**

PARAMETERS	CONDITIONS	ECS327-CDX-2216			UNITS
		MIN	TYP	MAX	
Frequency			32.768		KHz
Frequency Tolerance	@ +25°C			± 20	ppm
Load Capacitance			7		рF
Drive Level	DL		0.1	0.5	μW
Equivalent Series Resistance	R1			80K	Ω
Turnover Temperature		+20	+25	+30	°C
Temperature Coefficient		-0.028	-0.034	-0.040	ppm/°C²
Shunt Capacitance	Со		1.3		рF
Aging (First Year)	@ +25°C ±3°C			±3	ppm
Operating Temperature	Topr	-40		+85	°C
Storage Temperature	Tstg	-55		+125	°C
Insulation Resistance	@ 100V DC	500M			Ω

## **DIMENSIONS (mm)**

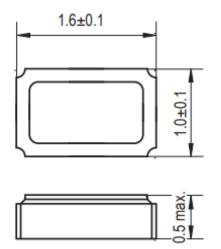
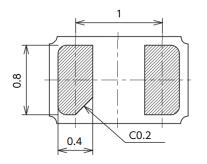


Figure 1) Top, Side, and Bottom views



PAD CONNECTIONS		
1	In/Out	
2	Out/In	

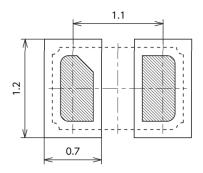
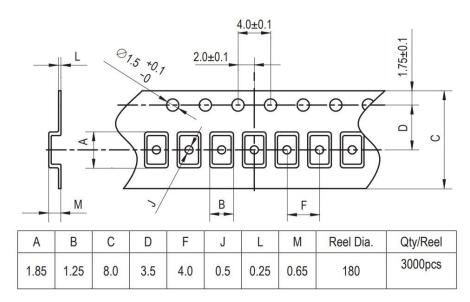


Figure 2) Suggested Land Pattern

Part Number: ECS-.327-CDX-2216



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



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

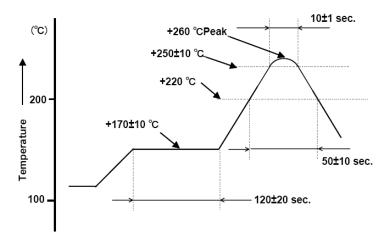


Figure 1) Suggested Reflow Profile