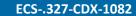


## ECS-.327-CDX-1082 SMD CRYSTAL

ECS INC

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





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

### **DIMENSIONS (mm)**

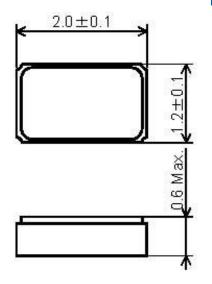
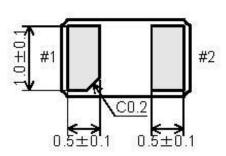


Figure 1) Top, Side, and Bottom views



PAD CONNECTIONS				
1	In/Out			
2	Out/In			

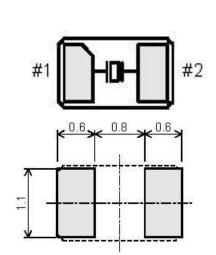


Figure 2) Suggested Land Pattern

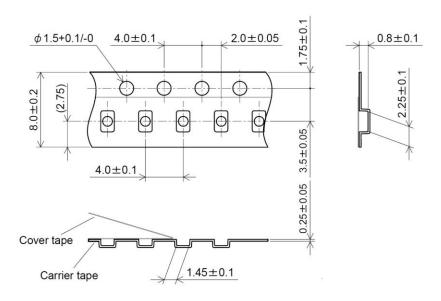
#### **OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS**

PARAMETERS	CONDITIONS	ECS327-CDX-1082			UNITS
		MIN	TYP	MAX	
Frequency			32.768		KHz
Frequency Tolerance	@ +25°C			± 20	ppm
Temperature Coefficient		-0.028	-0.034	-0.040	ppm/°C²
Shunt Capacitance	Co		1.5		pF
Load Capacitance			4		pF
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

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

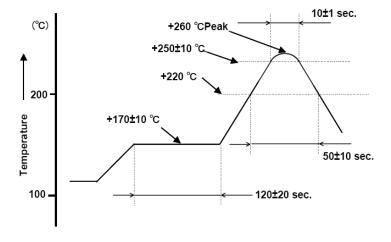


Figure 1) Suggested Reflow Profile

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Largest Supplier of Electrical and Electronic Components

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Click to view products by ECS Inc manufacturer:

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MC405 32.0000K-R3:PURE SN 7B-27.000MBBK-T MP1-8.0 99-BU 9B-15.360MBBK-B PTX-A2JM-10.000M 9C-7.680MBBK-T H10S-12.000-18-EXT-TR ABLS-18.432MHZ-20-D-4-T R38-32.768-12.5-5PPM-NPB BTD1062E05A-513 21U15A-21.4MHZ RTX-781DF1-S-20.950 LFXTAL066198Cutt 9C-14.31818MBBK-T A-11.000MHZ-27 SPT2A-.032768B SPT2A.032768G SSPT7F-9PF20-R FX325BS-38.88EEM1201 MP-1-25.000MHZ-3L MP-1-6.000MHZ LFXTAL065253Cutt LFXTAL066431Cutt XT9S20ANA14M7456 XT9SNLANA16M 646G-24-2 7B-30.000MBBK-T 9B-14.31818MBBK-B 6504-202-1501 6526-202-1501 FA-118T 27.1200MB50P-K0 BTJ120E02C SG636PCE-20.000MC 3404 CX3225SB48000Z0DZNC1 C1E-24.000-7-2020-R C1E-19.200-12-1530-X-R C1E-16.000-12-1530-X-R FL5000014 EUCA18-3.1872M 425F35E027M0000 FP0800018 17196 MS3V-T1R-32.768kHz-7pF-20PPM-TA-QC-Au VXM7-1C1-16M000 MS1V-T1K-32.768kHz-10pF-20PPM-TA-QC-Au MS3V-T1R-32.768kHz-9pF-20PPM-TA-QC-Au CX2016DB48000C0FPLC1 ECS-80-18-30-JGN-TR