

The miniature ECX-16 is a very compact SMD Tuning Fork Crystal perfect for LoRa Wan technology. Low ESR part recommended by STMicroelectronics for the STM32 Microcontrollers.

ECX-16 32.768 KHz **SMD Tuning Fork Crystal**

Request a Sample

ECX-16

32.768

12.5

6.5

+25

-0.03

1.3

MAX

± 20 *

0.5

90K

+30

-0.040

±3

+85

+125

ΤΥΡ



UNITS

KHz

ppm

pF

μW

Ω

fF

°C

ppm/°C²

pF

ppm

°C

°C

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

MIN

+20

-0.02

-40

-55

CONDITIONS

@ +25°C

Specify in P/N

DL

R1

Со

@ +25°C ±3°C

Topr

Tstg

ECX-16 SMD CRYSTAL

- Low Power RTC Applications such as STM32 AN2867
- 1.6 x 1.0 mm Footprint
- Extended Temp. Range
- RoHS Compliant
- Applications: Automotive, COTS, Industrial, IOT

DIMENSIONS (mm)

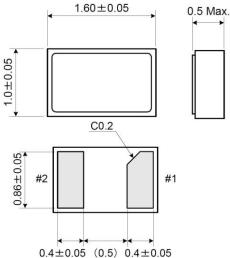


Figure 1) Top, Side, and Bottom views

#2 #1

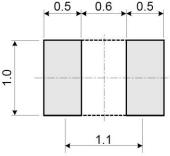


Figure 2) Suggested Land Pattern

PART NUMBERING GUIDE: Example ECS-.327-12.5-16-TR

PARAMETERS

Frequency Tolerance

Equivalent Series Resistance

Load Capacitance

Motional Capacitance

Turnover Temperature

Shunt Capacitance

Aging (First Year)

Temperature Coefficient

Operating Temperature

Storage Temperature

Frequency

Drive Level

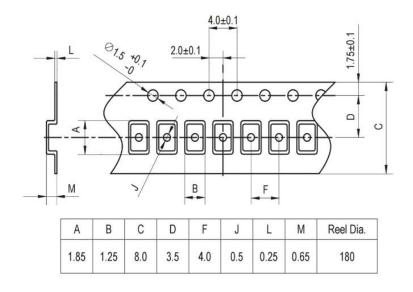
ECS - FREQUENCY ABBREVIATION	LOAD CAPACITANCE	PACKAGE	CUSTOM OPTIONS Tolerance (@+25°C) Max.	PACKAGING
ECS .327 = 32.768 KHz	12.5 = 12.5 pF 9 = 9 pF 7 = 7 pF 6 = 6 pF 5 = 5 pF	-16 = ECX-16	Blank = ±20 ppm * C = ± 10 ppm * 7 = ± 7 Max.	TR = 5K/Reel TR3 = 3K/Reel
*Contact ECS for availability				Rev.2022

PAD CONNECTIONS In/Out 1 2 Out/In





POCKET TAPE DIMENSIONS (mm)



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

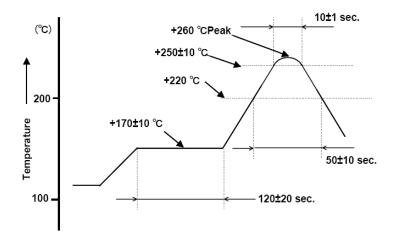


Figure 1) Suggested Reflow Profile