

The ultra-minature ECX-12 is a very compact SMD Tuning Fork Crystal. The 2.0 x 1.2 x 0.6 mm ceramic package is ideal for mobile devices, IoT, real time clocks, and industrial applications.

### **ECX-12** 32.768 KHz **SMD Tuning Fork Crystal**

**ECX-12** 

**MAX** 

TYP

Request a Sample

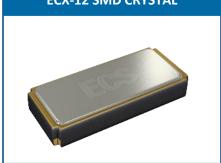
MIN



**UNITS** 

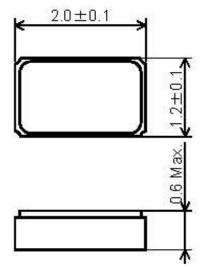
°C

### **ECX-12 SMD CRYSTAL**



- Low Power RTC Applications such as STM32 AN2867
- 2.0 x 1.2 mm Footprint
- Extended Temp. Range
- RoHS Compliant
- Applications: Automotive, COTS, Industrial, IOT

# **DIMENSIONS (mm)**

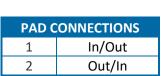


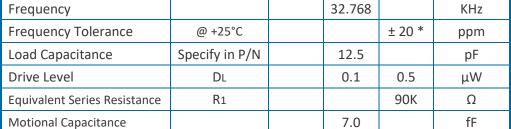


# #2 C0.2 $0.5 \pm 0.1$

Storage Temperature

**PARAMETERS** 





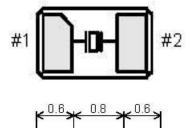
**OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS** 

CONDITIONS

Tstg

**Turnover Temperature** +20 +25 +30 °C ppm/°C<sup>2</sup> Temperature Coefficient -0.02-0.03 -0.040**Shunt Capacitance** Co 1.3 рF @ +25°C ±3°C Aging (First Year) ±3 ppm **Operating Temperature** Topr -40 +85 °C

-55



+125

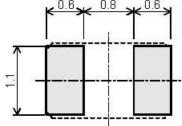


Figure 2) Suggested Land Pattern

### PART NUMBERING GUIDE: Example ECS-.327-12.5-12-TR

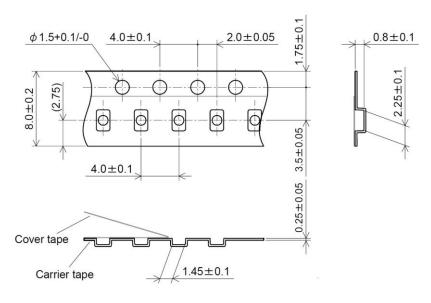
ECS -	FREQUENCY ABBREVIATION	LOAD CAPACITANCE	PACKAGE	CUSTOM OPTIONS Tolerance	PACKAGING
ECS	.327 = 32.768 KHz	12.5 = 12.5 pF 9 = 9 pF 7 = 7 pF 6 = 6 pF	-12 = ECX-12	Blank = ±20 ppm * C = ± 10 ppm	TR = 3K/Reel TR9 = 9K/Reel

\*Contact ECS for availability Rev.2022





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



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

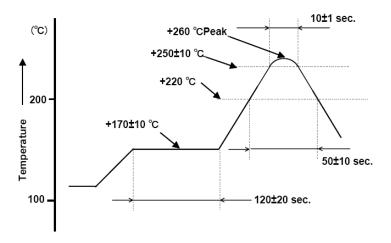


Figure 1) Suggested Reflow Profile

# **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

# ECS:

ECS-.327-12.5-12-C-TR ECS-.327-9-12-C-TR ECS-.327-6-12-C-TR