

The sub miniature ECX-34G is a compact SMD tuning fork crystal with a case ground. The 3.2 x 1.5 x 0.9 mm ceramic package is ideal mobile devices, IoT and low noise applications.

# ECX-34G SMD CRYSTAL

[Request a Sample](#)

## ECX-34G SMD CRYSTAL



- Grounded Metal Cover
- 3.2 x 1.5 mm Footprint
- Low Power RTC Applications such as STM32 [AN2867](#)
- RoHS Compliant

## OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

| PARAMETERS                   | CONDITIONS     | ECX-34G |        |        | UNITS               |
|------------------------------|----------------|---------|--------|--------|---------------------|
|                              |                | MIN     | TYP    | MAX    |                     |
| Frequency                    |                |         | 32.768 |        | KHz                 |
| Frequency Tolerance          | at +25°C       |         |        | ± 20   | ppm                 |
| Frequency Stability          | -40 to +85°C   | -0.028  | -0.034 | -0.040 | ppm/°C <sup>2</sup> |
| Shunt Capacitance            | Co             |         | 0.75   |        | pF                  |
| Load Capacitance             | Specify in P/N |         | 12.5   |        | pF                  |
| Drive Level                  |                |         |        | 1      | μW                  |
| Equivalent Series Resistance | R1             |         |        | 70K    | Ω                   |
| Quality Factor               | Q              |         | 30K    |        |                     |
| Turnover Temperature         |                | +20     | +25    | +30    | °C                  |
| Operating Temperature        |                | -40     |        | +85    | °C                  |
| Storage Temperature          |                | -55     |        | +125   | °C                  |
| Aging (First Year)           | @ +25°C ±3°C   |         |        | ±3     | ppm                 |

## DIMENSIONS (mm)

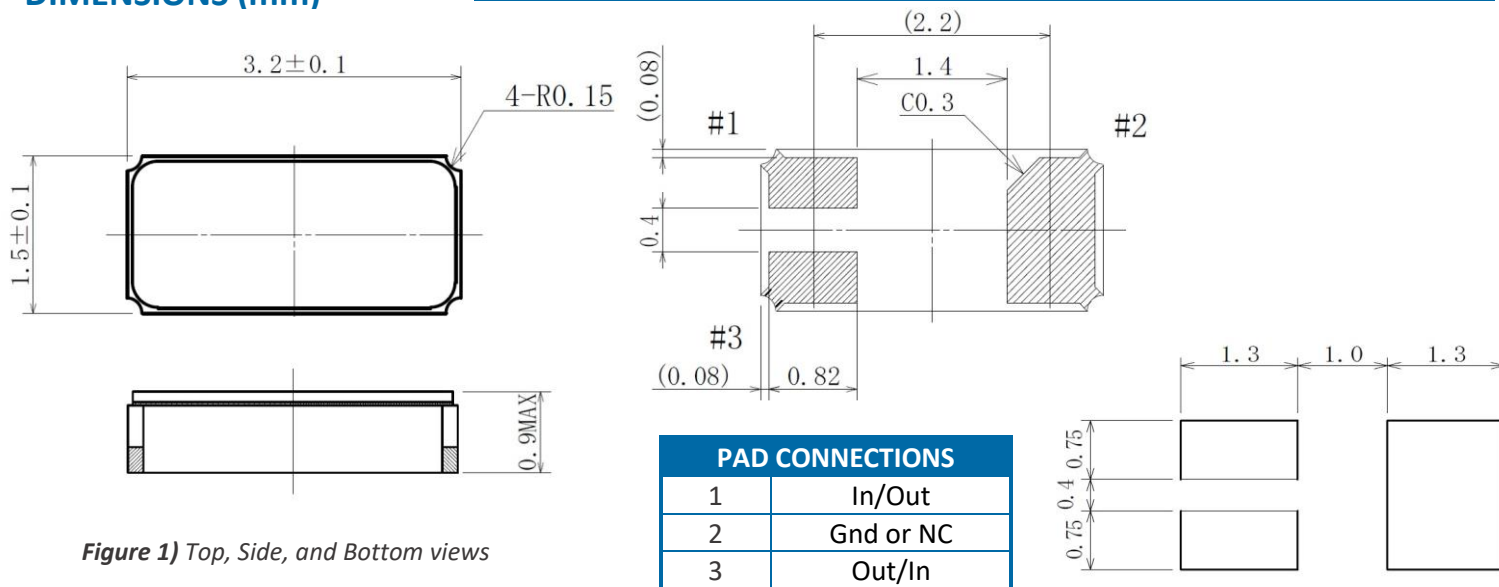


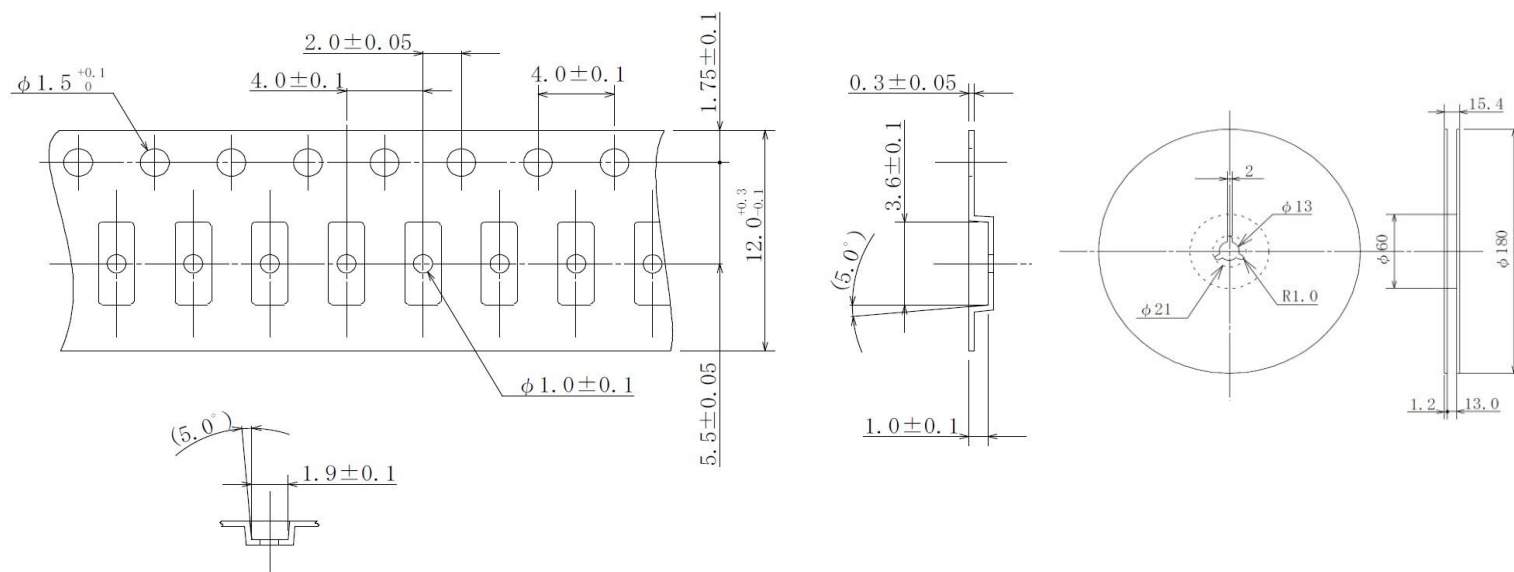
Figure 1) Top, Side, and Bottom views

Figure 2) Suggested Land Pattern

## PART NUMBERING GUIDE: Example ECS-.327-12.5-34G-TR

| ECS - FREQUENCY ABBREVIATION | LOAD CAPACITANCE  | PACKAGE       | CUSTOM OPTIONS<br>Tolerance       | PACKAGING                   |
|------------------------------|-------------------|---------------|-----------------------------------|-----------------------------|
| ECS                          | .327 = 32.768 KHz | 34G = ECX-34G | Blank = ±20 ppm<br>* C = ± 10 ppm | TR = Tape & Reel<br>3K/Reel |

## POCKET TAPE & Reel DIMENSIONS



### SOLDER PROFILE

Peak solder Temp  $+260^\circ\text{C}$  Max 10 sec Max.

2 Cycles Max.

MSL 1, Lead Finish Au

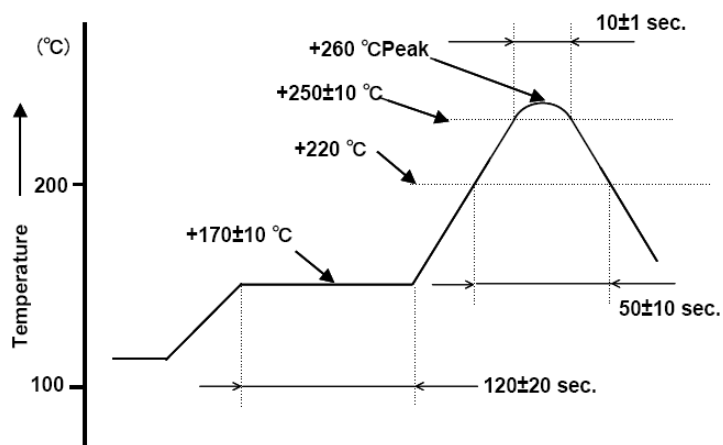


Figure 1) Suggested Reflow Profile