



- Low Profile
- 1.6 x 1.0 mm Footprint
- Extended Temp. Range
- Lead Finish Au
- MSL 1
- RoHS 2 Compliant

ECX-16

SMD TUNING FORK CRYSTAL

The ultra-miniature ECX-16 is a very compact SMD Tuning Fork Crystal. The 1.6 x 1.0 x 0.5 mm ceramic package is ideal for today's SMD manufacturing environment.

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

| PARAMETERS | CONDITIONS | ECX-16 | | | UNITS |
|------------------------------|------------------|--------|--------|-------|---------------------|
| | | MIN | TYP | MAX | |
| Frequency | F _o | | 32.768 | | KHz |
| Frequency Tolerance | @ +25°C | | | ± 20 | ppm |
| Load Capacitance | Specify in P/N | | 12.5 | | pF |
| Drive Level | D _L | | | 0.5 | μW |
| Equivalent Series Resistance | R ₁ | | | 90K | Ω |
| Motional Capacitance | | | 6.5 | | fF |
| Turnover Temperature | | +20 | +25 | +30 | °C |
| Temperature Coefficient | | -0.02 | -0.03 | -0.04 | ppm/°C ² |
| Shunt Capacitance | C ₀ | | 1.3 | | pF |
| First Year Aging | +25°C ±3°C | | | ± 3 | ppm |
| Operating Temperature | T _{opr} | -40 | | +85 | °C |
| Storage Temperature | T _{stg} | -55 | | +125 | °C |

TOP, BOTTOM, SIDE VIEWS & LAND PATTERN

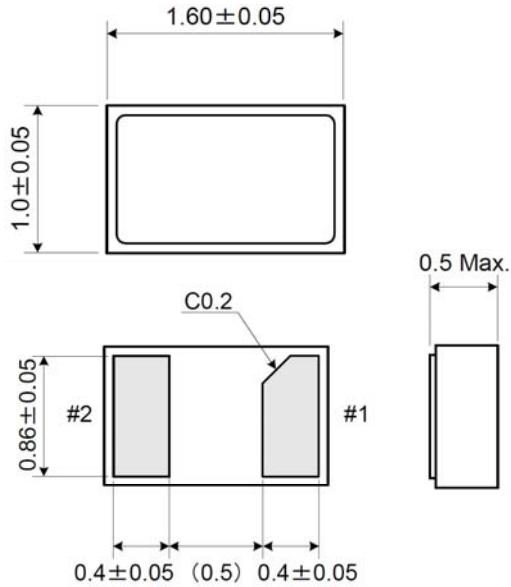


Figure 1) Top, Bottom and Side View

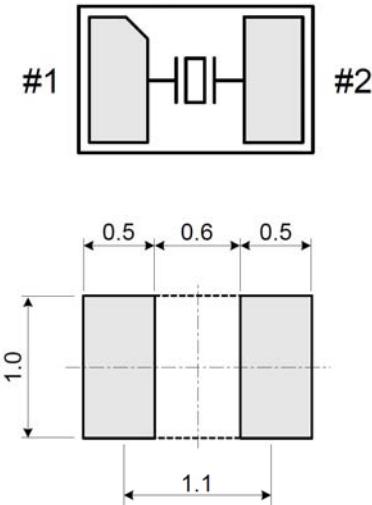


Figure 2) Crystal connection and Suggested Land

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



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