

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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- ► Low Profile
 - ► 1.6 x 1.0 mm Footprint
 - ► Extended Temp. Range
 - Lead Finish Au
 - MSI
- ► 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 | UNITS |
| Frequency | Fo | | 32.768 | | KHz |
| Frequency Tolerance | @ +25°C | | | ± 20 | ppm |
| Load Capacitance | Specify in P/N | | 12.5 | | pF |
| Drive Level | DL | | | 0.5 | μW |
| Equivalent Series Resistance | R1 | | | 90K | Ω |
| Motional Capacitance | | | 6.5 | | fF |
| Turnover Temperature | | +20 | +25 | +30 | °C |
| Temperature Coefficient | | -0.02 | -0.03 | -0.04 | ppm/°C² |
| Shunt Capacitance | Со | | 1.3 | | pF |
| First Year Aging | +25°C ±3°C | | | ± 3 | ppm |
| Operating Temperature | Topr | -40 | | +85 | °C |
| Storage Temperature | Tstg | -55 | | +125 | °C |

TOP, BOTTOM, SIDE VIEWS & LAND PATTERN

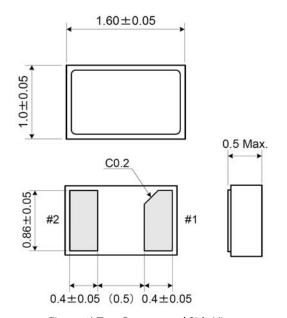
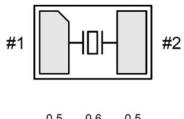


Figure 1) Top, Bottom and Side View



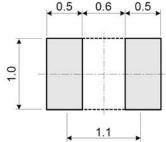


Figure 2) Crystal connection and Suggested Land

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

