



**THE DATASHEET OF
ECS-.327-12.5-17-TR**





- ▶ Low Profile
- ▶ Long term stability
- ▶ Industry standard footprint
- ▶ Extended Temp. Range

ECX-306

SMD TUNING FORK CRYSTAL

The ECX-306 is a compact SMD Tuning Fork Crystal. The 3.8 x 8.0 x 2.5 mm package is ideal for today's SMD manufacturing environment.

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

| PARAMETERS | CONDITIONS | ECX-306 | | | UNITS |
|------------------------------|----------------|---------|--------|--------|---------------------|
| | | MIN | TYP | MAX | |
| Frequency | Fo | | 32.768 | | KHz |
| Frequency Tolerance | @ +25°C | | | ± 20 | ppm |
| Load Capacitance | Specify in P/N | | 12.5 | | pF |
| Drive Level | DL | | | 1.0 | μW |
| Equivalent Series Resistance | R1 | | | 50K | Ω |
| Turnover Temperature | | +20 | +25 | +30 | °C |
| Temperature Coefficient | | -0.028 | -0.034 | -0.040 | ppm/°C ² |
| Shunt Capacitance | Co | | 1.35 | | pF |
| First Year Aging | +25°C ±3°C | | | ± 3 | ppm |
| Operating Temperature | Topr | -40 | | +85 | °C |
| Storage Temperature | Tstg | -55 | | +125 | °C |
| Insulation Resistance | @ 100V DC | 500M | | | Ω |

TOP, BOTTOM, SIDE VIEWS & LAND PATTERN

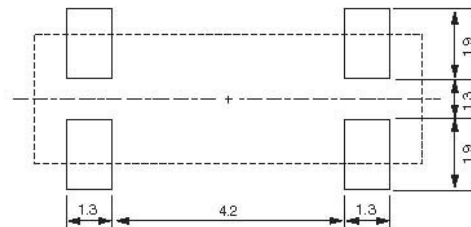
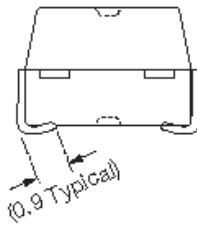
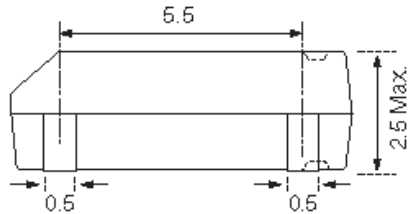
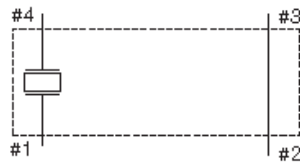
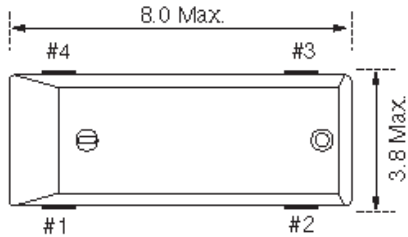


Figure 1) Top, Side and End Views
Pad 2 & 3 No Connects

Figure 2) Bottom View and Suggested Land

PART NUMBERING GUIDE: Example ECS-.327-12.5-17-TR

| ECS | - Frequency Abbreviation | - Load Capacitance | - Package Type | - Tolerance | - Packaging |
|-----|--------------------------|----------------------------|----------------|--------------------------------------|------------------------------|
| | .327 = 32.768 KHz | 12.5 = 12.5 pF 6 = 6 pF | -17 = ECX-306 | Blank (Std) = ±20 ppm C = ±10 ppm | -TR = Tape & Reel 3K/Reel |

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

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 [ECS Inc. Information](#)

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