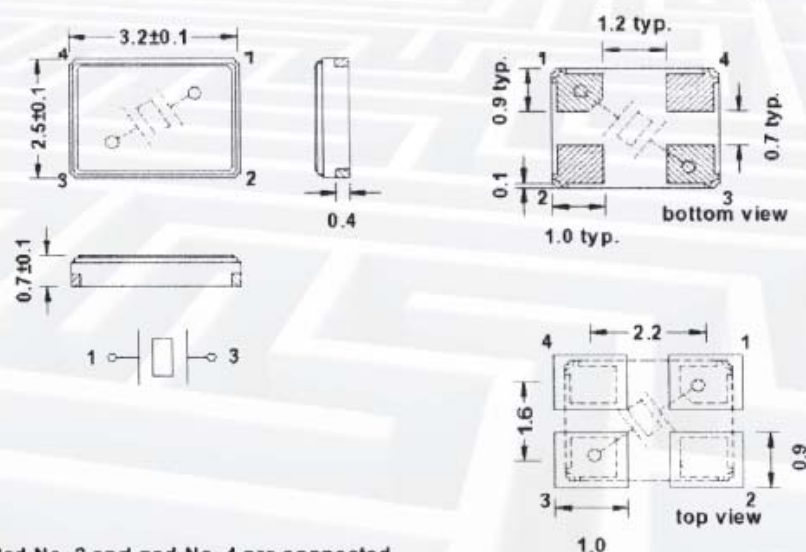


|  |  |                |             |
|--|--|----------------|-------------|
| Crystal Holder Prefix                  | C32 series   |                |             |
| Frequency Range                        | 16.0 ~40.0 MHz AT-cut Fundamental mode   |                |             |
| Calibration Tolerance                  | ±5 ppm (±0.0005 %), or ±10 ppm (±0.001 %), or ±30 ppm (±0.003 %) at 25°C                     |                |             |
| Frequency Stability                    | ±10 ppm (±0.001 %); or ±20 ppm (±0.002 %) ;or ±30 ppm (±0.003 %)                             |                |             |
| Operating Temperature Range            | -20°C to +70°C, or -30°C to +85°C  |                |             |
| Shunt Capacitance (Co)                 | 2.0~4.0 pF typical, 5 pF maximum   |                |             |
| Equivalent Series Resistance: (E.S.R.) | Frequency  | Vibration Mode | E.S.R. max. |
|  | 16.0~20.0  | AT fundamental | 100 Ω       |
|  | 20.01~40.0   | AT fundamental | 50 Ω        |
| Load Capacitance (C <sub>L</sub> )     | Series (S)   |                |             |
|  | Parallel: Please specify C <sub>L</sub> value, typical C <sub>L</sub> ranges from 9 to 32pF) |                |             |
| Drive Level:                           | 100 μW max.  |                |             |
| Aging:                                 | Less than ±3 ppm per year at +25°C   |                |             |
| Reflow Soldering:                      | 10 seconds maximum at +260°C two times or 180 seconds at 230°C one time                      |                |             |

**Note:** Tighter tolerance, tighter stability and lower ESR are available.

### PACKAGE DIMENSIONS AND SUGGESTED PAD LAYOUT

Unit: mm [inches]



1. Pad No. 2 and pad No. 4 are connected through the metal lid for grounding.
2. Chamfered pad is pad No. 1.
3. Count clockwise when looking at top view.
4. Count counter-clockwise when looking at bottom view.