

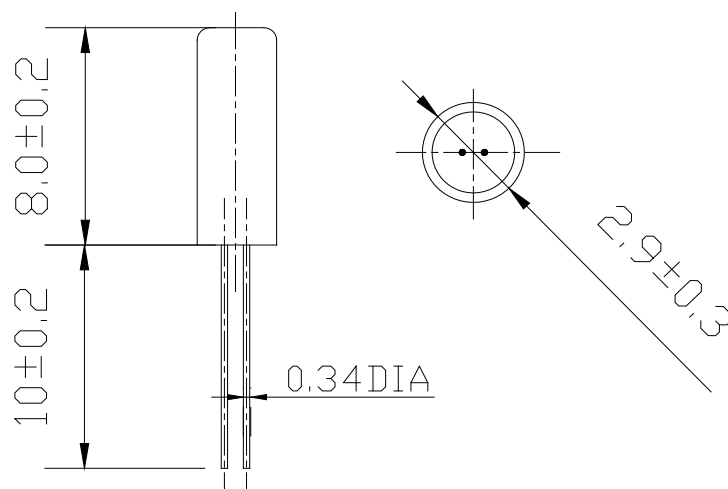
TUNING FORK CRYSTAL UNIT

TYPE : VT-30832.768KHz-DIP

1.ELECTRIC CHARAC:

| PARAMETERS | | VT-308 |
|-----------------------------|-------------------|------------------------------------|
| Mode of Vibration | | +2° X-cut , Fundamental |
| Nominal frequency | F | 32.768KHz |
| Load Capacitance | C _L | 12.5 PF Typical |
| Frequency Tolerance at 25°C | | ±20 ppm |
| Series Resistance | R _r | 30KΩ Max |
| Quality Factor | Q | 35K TYP |
| Turnover Temperature | T _o | 25 °C ± 5°C |
| Temperature Coefficient | K | -0.035 ppm/°C ² Typical |
| Operation Temperature | | -40 °C ~ +60°C |
| Shunt Capacitance | C _o | 1.6PF Typical |
| Aging 1st Year | Δf/f | ± 5 ppm max. |
| Shock Resistance | | ± 5 ppm max. |
| Capacitance Ratio | C _o /C | 520 Typical |
| Insulation Resistance | | 500MΩ at DC 100V ± 15V |
| Drive Level | | 1 μW |
| Remark: | | |

2.DIMENSION (MM)



3. PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS

3-1. Humidity

Subject the crystal at $40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ and 90% - 95% RH for 96 ± 4 hours. Then release the crystal into the room conditions for 1 hour prior to the measurement.

3-2. High Temperature Exposure

Subject the crystal to $85^{\circ}\text{C} \pm 5^{\circ}\text{C}$ for 96 ± 4 hours. Then release the crystal into the room conditions for 1 hour prior to the measurement.

3-3. Low Temperature

Subject the crystal to $-20^{\circ}\text{C} \pm 5^{\circ}\text{C}$ for 96 ± 4 hours. Then release the crystal into the room conditions for 1 hour prior to the measurement.

3-4. Mechanical Shock

Drop the crystal randomly onto a concrete floor from the height of 50cm 3 times.

3-5. Temperature Cycling

Subject the crystal to -30°C for 30 min. followed by a high temperature of $+85^{\circ}\text{C}$ for 30 min. Cycling shall be repeated 5 times with a transfer time of 15sec. at the room condition. Then release