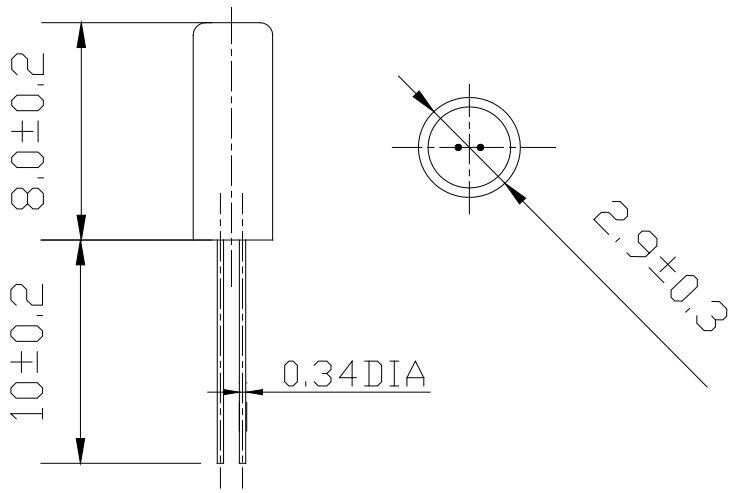
TUNING FORK CRYSTAL UNIT

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℃		±20 ppm
Series Resistance	Rr	30KΩ Max
Quality Factor	Q	35K TYP
Turnover Temperature	To	25 ℃± 5℃
Temperature Coefficient	K	-0.035 ppm/$℃^2$ Typical
Operation Temperature		-40 ℃~ +60℃
Shunt Capacitance	Co	1.6PF Typical
Aging 1st Year	Δf/f	± 5 ppm max.
Shock Resistance		± 5 ppm max.
Capacitance Ratio	C_0/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℃± 2℃ and 90％ - 95％ RH for 96±4 hours Then release the crystal into the room conditions for 1hour prior to the measurement .

3-2. High Temperature Exposure

Subject the crystal to 85℃± 5℃ for 96±4 hours . Then release the crystal into the room conditions for 1hour prior to the measurement .

3-3. Low Temperature

Subject the crystal to -20℃± 5℃ for 96±4 hours . Then release the crystal into the room conditions for 1hour 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℃ for 30 min. followed by a high temperature of +85℃ for 30 min. Cycling shall be repeated 5times with a transfer time of 15sec. at the room condition . Then release

the resonator into the room temperature for 2hours prior to the measurement .

3-6. Vibration

Subject the crystal to vibration for 2hours each in x, y and z axes with the amplitude of 1.5mm, the frequency shall be varied uniformly between the limits of 10-55 Hz .

3-7. Solder Ability

Dip the crystal terminals no closer than 2 mm into the solder bath at 235℃± 5℃ for 3±0.5 sec .more than 95% of the erminal surface of the crystal shall be covered with fresh solder.

3-8. Lead Fatigue

1) Pulling Test

Weight along with the direction of terminals without any shock 0.5kg for 10±1sec.; The crystal shall no evidence of damage and shall fulfill all the initial electric characteristics。

2) Bending Test

Lead shall be subject to withstand against 90 degree bending at its stem。This operation shall be done towards both direction; The crystal shall no evidence of damage and shall fulfill all the initial electric characteristics。

4. REVIEW OF SPECIFICATION

When something get doubtful with this specifications，we shall jointly work to get an agreement。