■ Mist generator disks US2610K-24

An ultrasonic vibrator is equipment which use conversion of electric energy into mechanical energy and one of this equipment is a mist generator disk.

■ Principle

When ultrasonic vibrating energy is applied to liquid, the minute surface waves inherent in the frequency are generated on the surface or in the liquid. If infinite capillary wave are generated, the surface tension of liquid decreases and regular segmentation occur. In other words, ultrasonic decrease the surface tension of water and make mist.

■ Features

- Simple structure
- Easily controllable

■ Application

- Ultrasonic perfumer
- Ultrasonic nebulizer
- Display at store

■ Electronic characteristics

<table>
<thead>
<tr>
<th>Resonance frequency : fr</th>
<th>Resonance resistance : R</th>
<th>Capacitance : C</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.4MHz</td>
<td>&lt; 5Ω</td>
<td>1650pF</td>
</tr>
</tbody>
</table>

http://www.fdk.co.jp
■ Example of drive circuit

![Drive Circuit Diagram](image)

■ Reference specification

- Input voltage: DC24V
- Current consumption: 550 mA
- Oscillation frequency: 2.4 MHz
- Proper water level: 25-35 mm
- Ability of making to fog: 120ml / h

(The making fog ability changes by the water temperature, action requirements.)

■ Example of size of installation part

![Installation Part Diagram](image)

**Caution**

- Please do not make PZT (case) go under water.
- PZT breaks when boiling it without water. We will recommend the installation such as the water level sensors on the water tank.