

## SPECIFICATION

### 1. Scope

This specification covers the DATRON transducer for cleaning under the atmosphere of  $25 \pm 3^\circ\text{C}$  40 ~ 70%RH.

### 2. Type

#### Trans-C253864

Trans-C	25	38	64
Transducer	Frequency	Ceramic dia.	Emitting dia.

### 3. Dimensions

As per the drawing : Height = 83.4 m/m Emitting Diameter = 64 m/m

### 4. Electrical Specification ( By Piece )

- Resonant Frequency  $F_r = 25\text{kHz} \pm 0.5\text{kHz}$
- Resonant Resistance  $Z_r < 20\Omega$
- Capacitance  $\text{CAPA} = 3.74 \pm 20\% \text{ nF}$
- $\text{tgD} (\% \text{ KHz}) < 0.5$



### 5. Mechanical Characteristics ( Periodical in Laboratory )

- Acoustic Power =  $2.5 \pm 0.5 \text{ Wcm}^2$  -- By Ohmico Ultrasonic Power Meter UMP- DT-1AV
- $Q_m > 500$  -- By HP Network Analyzer E5100A
- Amplitude  $> 18\mu\text{m}$  -- Peak-to-peak in sinusoidal

### 6. Frequency category :

- |                    |                    |
|--------------------|--------------------|
| A : 24.50~24.69kHz | B : 24.70~24.89kHz |
| C : 24.90~25.09kHz | D : 25.10~25.29kHz |

### 7. Impedance VS Frequency curve of Trans-C253864

