

## SPECIFICATION

### 1. Scope

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

### 2. Type

Trans-C45\*553045

Trans-C	45 & 55	30	45
Transducer	Frequency	Ceramic dia.	Emitting dia.

### 3. Dimensions

As per the drawing : Height = 40mm/m Emitting Diameter = 45mm/m

### 4. Electrical Specification ( By Piece )

- Resonant Frequency  $F_r = 45 \pm 55 \text{ kHz} \pm 0.5 \text{ kHz}$
- Resonant Resistance  $Z_r < 15 \Omega$
- Capacitance  $CAPA = 3.2 \pm 20\% \text{ nF}$
- $\text{tgD} (\% \text{ KHz}) < 0.5$
- $Q_m > 500$



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

- Acoustic Power =  $2.5 \pm 0.5 \text{ W/cm}^2$  -- By Ohmic Ultrasonic Power Meter UMP- DT-1AV
- Amplitude  $> 10 \mu\text{m}$  -- Peak-to-peak in sinusoidal

### 6. Frequency category :

- A : 44.50~44.79kHz      B : 44.80~45.04kHz  
 C : 45.05~40.29kHz      D : 45.30~40.50kHz

### 7. Impedance VS Frequency curve of Trans-C45-553045

