

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 $F_r = 45*55 \text{ kHz} \pm 0.5 \text{ kHz}$
- Resonant Resistance $Z_r < 20 \Omega$
- 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 = $2.5 \pm 0.5 \text{ Wcm}^2$ -- 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

