

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-C503030

Trans-C	50	30	30
Transducer	Frequency	Ceramic dia.	Emitting dia.

3. Dimensions

As per the drawing : Height = 43m/m Emitting Diameter = 30m/m

4. Electronical Specification (By Piece)

- a. Resonant Frequency $F_r = 50\text{kHz} \pm 0.5\text{kHz}$
- b. Resonant Resistance $Z_r < 20\Omega$
- c. Capacitance $\text{CAPA} = 3.2 \pm 20\% \text{ nF}$
- d. $\text{tgD} (\% \text{ KHz}) < 0.5$
- e. $Q_m > 500$



5. Mechanical Characteristics (Periodical in Laboratory)

- a. Acoustic Power = $5.6 \pm 0.5 \text{ Wcm}^{-2}$ -- By Ohmico Ultrasonic Power Meter UMP- DT-1AV
- b. Amplitude $> 10\mu\text{m}$ -- Peak-to-peak in sinusoidal

6. Frequency category :

- | | |
|--------------------|--------------------|
| A : 49.50~49.79kHz | B : 49.80~40.04kHz |
| C : 50.05~50.29kHz | D : 50.30~50.50kHz |

7. Impedance VS Frequency curve of Trans-C503030

