

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 = 43mm/m Emitting Diameter = 30mm/m

4. Electrical Specification (By Piece)

- a. Resonant Frequency $F_r = 50\text{kHz}\pm 0.5\text{kHz}$
- b. Resonant Resistance $Z_r < 15\Omega$
- 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

