

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-C1203840

Trans-C	120	38	40
Transducer	Frequency	Ceramic dia.	Emitting dia.

3. Dimensions

As per the drawing : Height = 59m/m Emitting Diameter = 40m/m

4. Electronical Specification (By Piece)

- a. Resonant Frequency $F_r = 120\text{kHz} \pm 0.5\text{kHz}$
- b. Resonant Resistance $Z_r < 20\Omega$
- c. Capacitance $CAPA = 3.74 \pm 20\% \text{ nF}$
- d. tgD (% KHz) < 0.5
- e. $Q_m > 500$



5. Mechanical Characteristics (Periodical in Laboratory)

- a. Acoustic Power = $6.7 \pm 1 \text{ Wcm}^2$ -- By Ohmico Ultrasonic Power Meter UMP- DT-1AV
- b. Amplitude $> 10\mu\text{m}$ -- Peak-to-peak in sinusoidal

6. Frequency category :

- A : 119.50~119.79kHz B : 119.80~120.04kHz
 C : 120.05~120.29kHz D : 120.30~120.50kHz

7. Impedance VS Frequency curve of Trans-C1203840

