

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-C255064

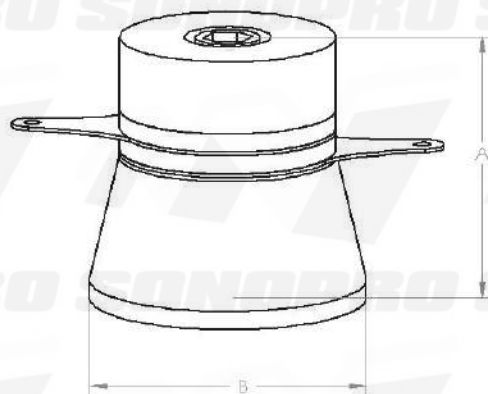
Trans-C	25	50	64
Transducer	Frequency	Ceramic dia.	Emitting dia.

3. Dimensions

As per the drawing : A = 83 m/m B = 64 m/m

4. Electrical Specification (By Piece)

- Resonant Frequency $F_r = 25\text{kHz} \pm 0.5\text{kHz}$
- Resonant Resistance $Z_r < 15\Omega$
- Capacitance $\text{CAPA} = 5.75 \pm 20\% \text{ nF}$
- $\text{tgD} (\% \text{ KHz}) < 0.5$
- $Q_m > 500$



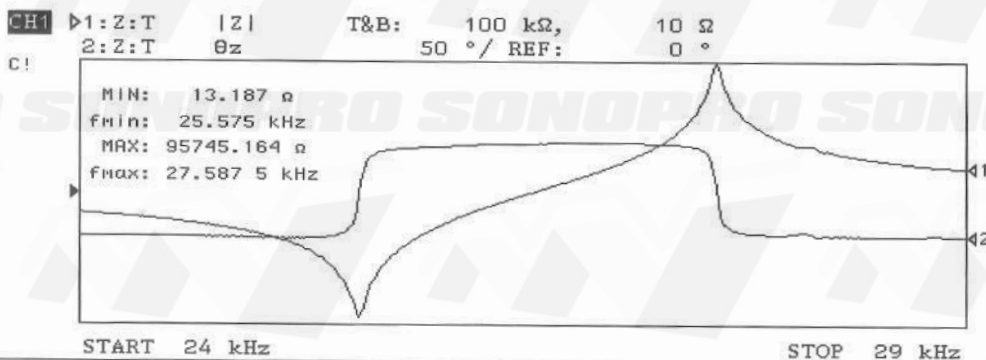
5. Mechanical Characteristics (Periodical in Laboratory)

- Acoustic Power = $3.2 \pm 0.5 \text{ Wcm}^2$ -- By Ohmic Ultrasonic
- Amplitude $> 20\mu\text{m}$ -- Peak-to-peak in sinusoidal

6. Frequency category :

A : 24.50~24.79kHz	B : 24.80~25.04kHz
C : 25.05~25.29kHz	D : 25.30~25.50kHz

7. Impedance VS Frequency curve of Trans-C255064



F_r (Hz)	= 25576.3311802
Z (Ohm)	= 13.3183822632
C_0 (nF)	= 5.55109664736
L_1 (mH)	= 42.5574358147
R_1 (Ohm)	= 13.2033939362
C_1 (nF)	= .909876081577
Q_{m1}	= 517.981268771