

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-C3538(5)52

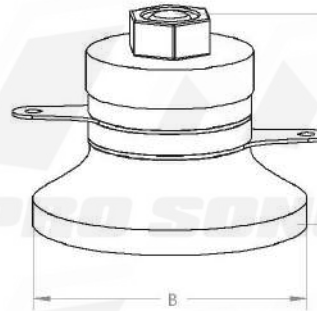
Trans-C	35	38 (5)	52
Transducer	Frequency	Ceramic dia.	Emitting dia.

3. Dimensions

As per the drawing : A = 55 m/m B= 52 m/m

4. Electrical Specification (By Piece)

- Resonant Frequency $F_r = 35\text{kHz}\pm 0.5\text{kHz}$
- Resonant Resistance $Z_r < 20\Omega$
- Capacitance $\text{CAPA} = 4.84\pm 20\% \text{ nF}$
- $\text{tgD} (\% \text{ KHz}) < 0.5$



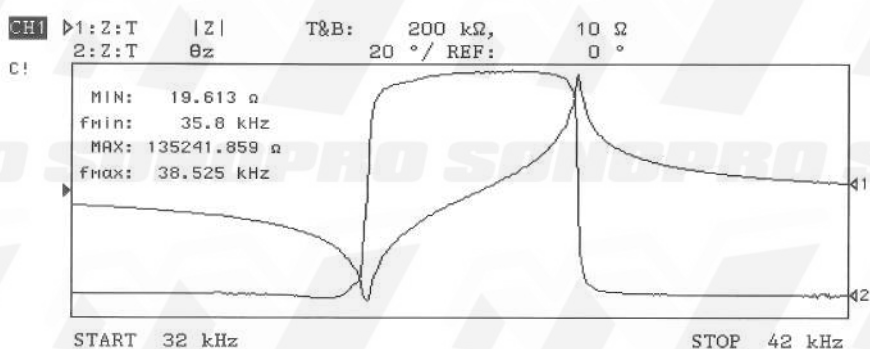
5. Mechanical Characteristics (Periodical in Laboratory)

- Acoustic Power = $3.3\pm 0.5 \text{ Wcm}^2$
- Amplitude $> 13\mu\text{m}$ Peak-to-peak in sinusoidal

6. Frequency category :

- A : 34.50~34.79kHz B : 34.80~35.04kHz
 C : 35.05~35.29kHz D : 35.30~35.50kHz

7. Impedance VS Frequency curve of Trans-C3538(5)52



F_r (Hz)	= 35802.8524303
Z (Ohm)	= 19.7133693695
CO (nF)	= 3.59732618543
L1 (mH)	= 34.8569807989
R1 (Ohm)	= 19.6571369171
C1 (nF)	= .567023560497
Qm1	= 398.823863056