

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-C1203540

Trans-C	120	35	40
Transducer	Frequency	Ceramic dia.	Emitting dia.

3. Dimensions

As per the drawing : Height = 60m/m Emitting Diameter = 40m/m

4. Electrical Specification (By Piece)



a. Resonant Frequency $F_r = 120\text{kHz} \pm 0.5\text{kHz}$

b. Resonant Resistance $Z_r < 15\Omega$

c. Capacitance $CAPA = 4.11 \pm 20\% \text{ nF}$

d. $\text{tgD} (\% \text{ KHz}) < 0.5$

e. $Q_m > 500$

5. Mechanical Characteristics (Periodical in Laboratory)

a. Acoustic Power = $4.7 \pm 0.5 \text{ Wcm}^2$ -- By Ohmico Ultrasonic Power Meter UMP- DT-1AV

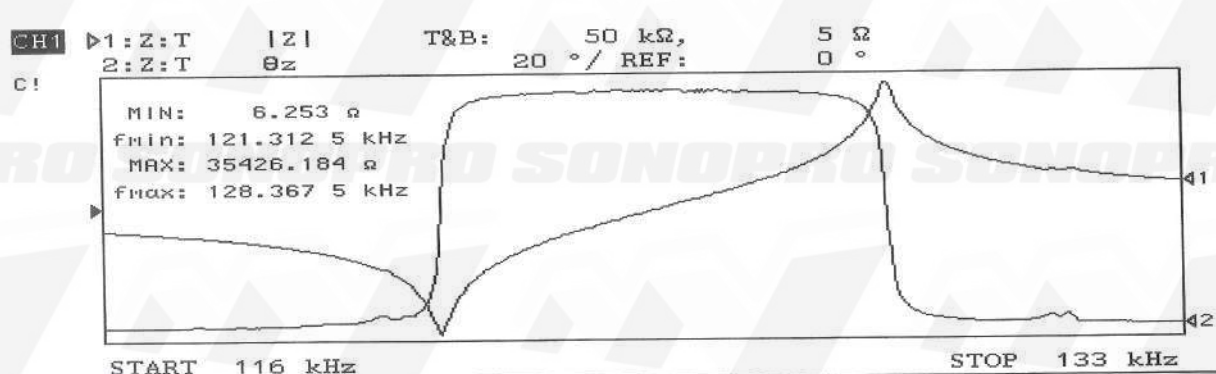
b. Amplitude $> 10\mu\text{m}$ -- Peak-to-peak in sinusoidal

6. Frequency category :

A : 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-C1203540



F_r (Hz)	=	121308.069181
Z (Ohm)	=	6.29052829742
C_0 (nF)	=	2.3750599679
L_1 (mH)	=	6.06941672725
R_1 (Ohm)	=	6.26207685471
C_1 (nF)	=	.283596199178
Q_{m1}	=	738.774066674