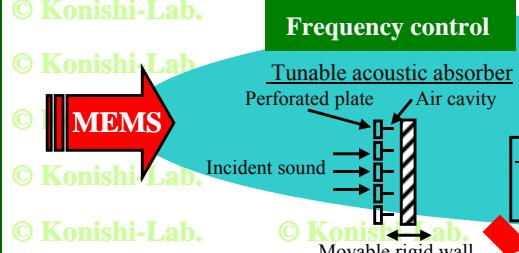


Acoustic Operational Amplifier Composed of Acoustic FET

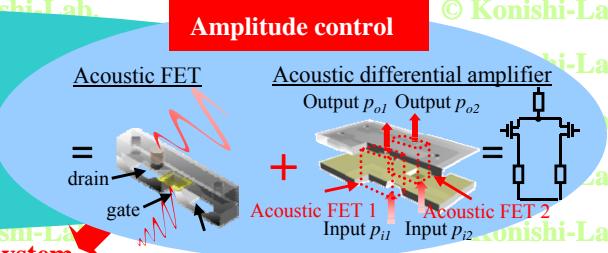
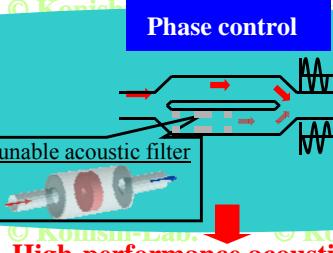
Abstract

We present acoustic operational amplifier using acoustic FET. The acoustic operational amplifier is composed of acoustic common source FET circuit and acoustic differential amplifier. The acoustic operational amplifier has the function of controlling output sound pressure and performing an acoustic operation.

Acoustic control

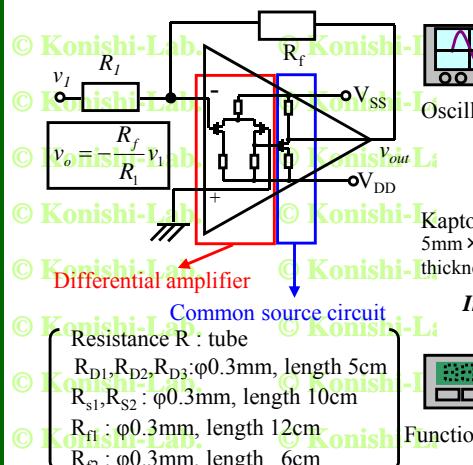


Objective

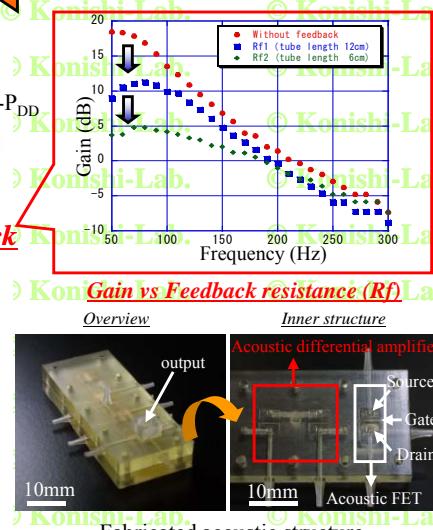
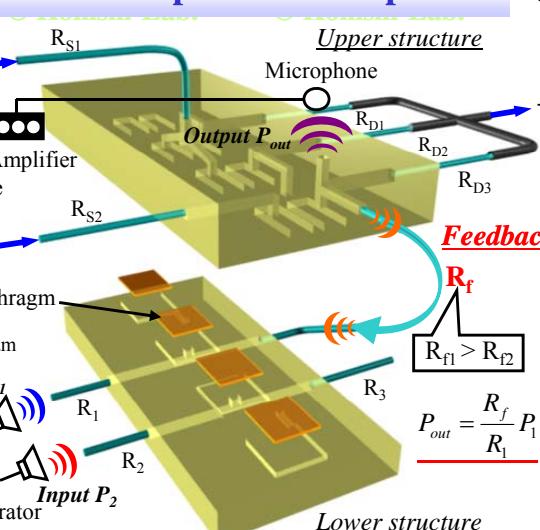


High-performance acoustic system

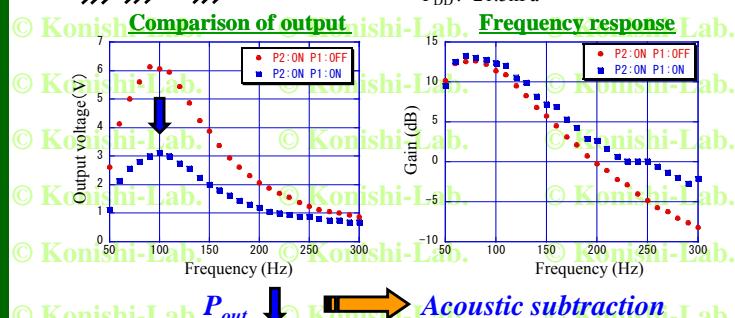
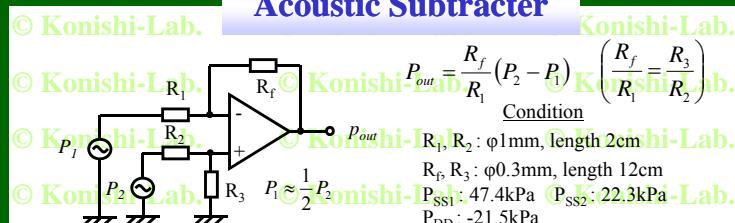
Two stage operational amplifier



Acoustic Operational Amplifier

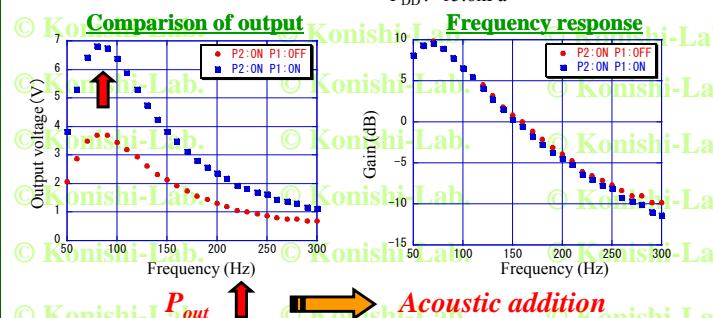
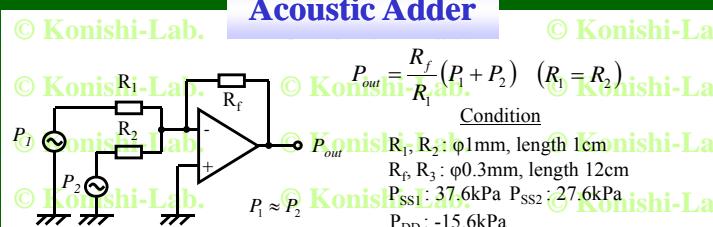


Acoustic Subtractor



$P_{out} \downarrow$ **Acoustic subtraction**

Acoustic Adder



$P_{out} \uparrow$ **Acoustic addition**

Summary

We presented acoustic operational amplifier composed of acoustic FET. Output sound pressure of the operational amplifier could be controlled by changing acoustic feedback resistance. Acoustic subtracter and acoustic adder could perform successfully.