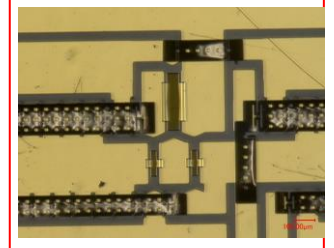
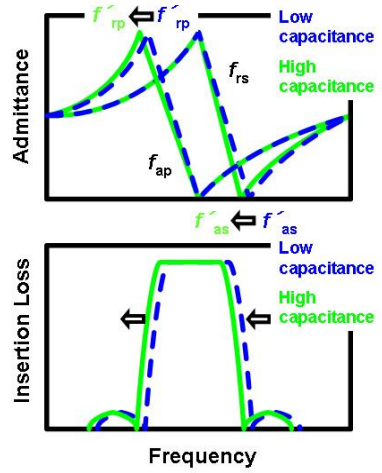
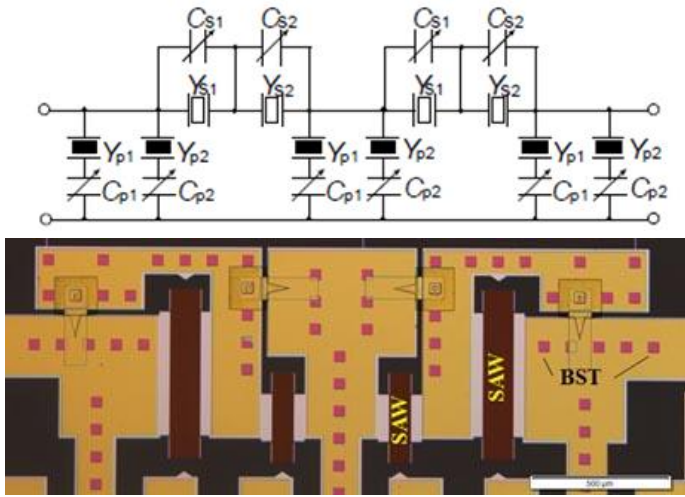
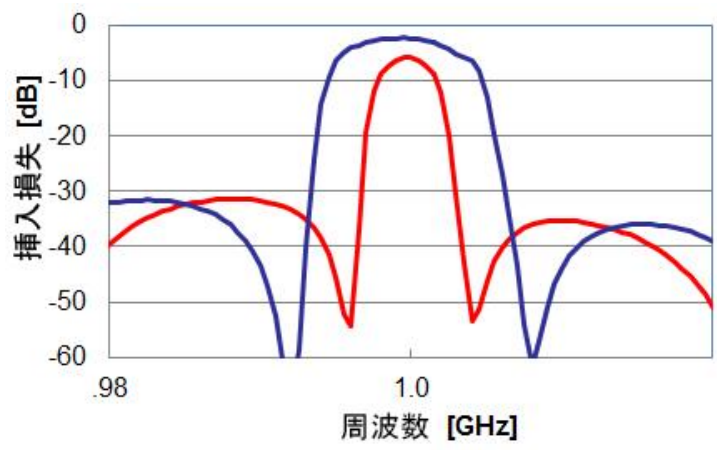


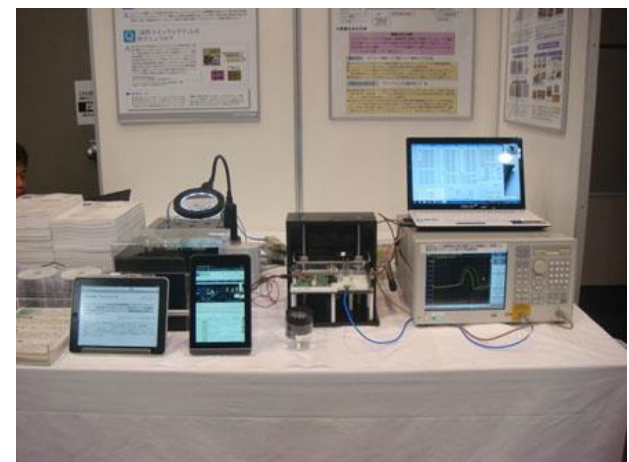
可変容量付帯域可変 SAW フィルタ



原理と写真

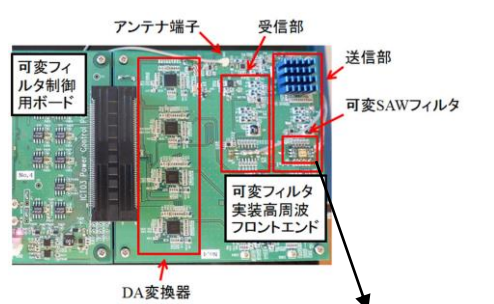


特性

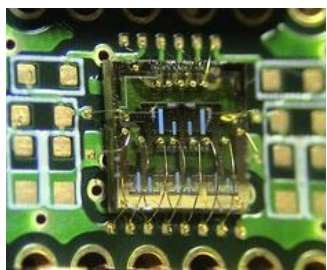


デモ

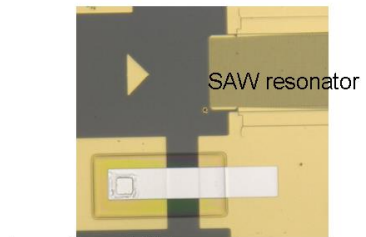
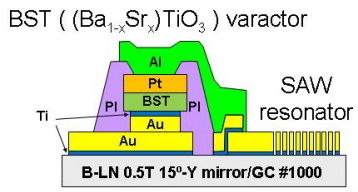
参考文献 : Hideki Hirano et.al, Bandwidth-tunable SAW Filter Based on Wafer-level Transfer-integration of BaSrTiO₃ Film for Wireless LAN System using TV White Space, IUS2014



DA変換器



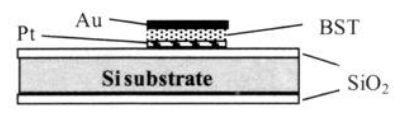
可変フィルタ



Transferred BST varactor (Tuning ratio of 1.6 at 3 V)

強誘電体(BST)を用いた可変容量

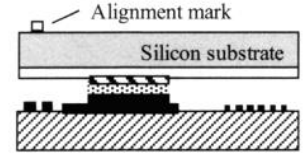
1. Deposition and patterning of Pt, BST and Au on Si



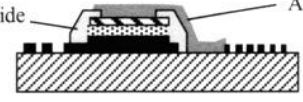
2. Fabrication of IDT and bonding pads



3. Au-Au bonding



4. Etching of Si sub. and wiring the IDT and VCs



参考文献 : H.Hirano, T.Kimura, I.P.Koutsaroff, M.Kodato, K.Hashimoto, M.Esashi and S.Tanaka, Integration of BST Varactors with Surface Acoustic Wave Device by Film Transfer Technology for Tunable RF Filters J. of Micromech. Microeng., 23, 2 (2013) 025005 (9pp)