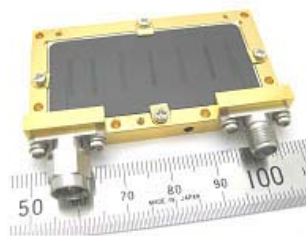
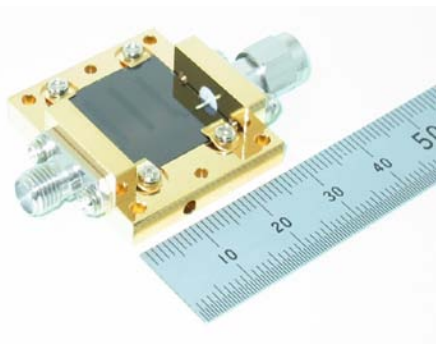
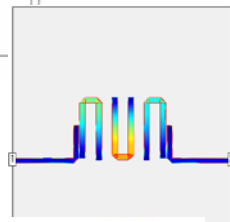
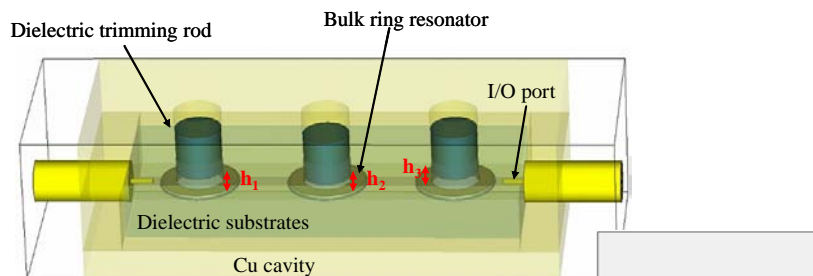


Superconducting Band Pass Filter for IMT ADVANCED

Associate Professor Atsushi Saito



Content:

Researches

1. Fabrication of high-temperature superconducting (HTS) thin films
 - 1.1. Magnetron Sputtering
 - 1.2. Pulse Laser Deposition (PLD)
 - 1.3. HTS in Artificial Pinning Center (APC)
 - 1.4. Metal Organic Deposition (MOD)
2. Evaluation of superconducting properties in HTS materials
 - 2.1. Microwave surface resistance R_s
 - 2.2. Critical current density J_c
 - 2.3. Critical temperature T_c
 - 2.4. Crystallinity
 - 2.5. Surface morphology
3. Design, fabrication, and evaluation of passive microwave devices
 - 3.1. Filter
 - 3.2. Josephson device
 - 3.3. Antenna

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