Abstracts

Design of Superconductive Multiplexers Using Single-Mode and Dual-Mode Filters (Short Papers)

R.R. Mansour. "Design of Superconductive Multiplexers Using Single-Mode and Dual-Mode Filters (Short Papers)." 1994 Transactions on Microwave Theory and Techniques 42.7 (Jul. 1994, Part II [T-MTT] (Special Issue on Filters and Multiplexers)): 1411-1418.

The objective of this short paper is twofold: 1) to present experimental and computer-simulated results for a number of single-mode and dual-mode high-temperature superconductor (HTS) filters; and 2) to present the measured performance of an integrated 3-channel circulator-coupled multiplexer employing dual-mode HTS thin film filters. The CAD algorithm used to design the HTS filters is also described. The results presented demonstrate the feasibility of building C-band compact-size superconductive multiplexers.

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