Abstracts

Low Loss Multiplexers with Planar Dual Mode HTS Resonators

S.J. Fiedziuszko, J.A. Curtis, S.C. Holme and R.S. Kwok. "Low Loss Multiplexers with Planar Dual Mode HTS Resonators." 1996 Transactions on Microwave Theory and Techniques 44.7 (Jul. 1996, Part II [T-MTT] (Special Issue on the Microwave and Millimeter Wave Applications of High Temperature Superconductivity)): 1248-1257.

High temperature superconductivity space experiments (HTSSE-I and II) are aimed to demonstrate the feasibility of using high temperature superconductivity (HTS) technology in space systems. In communication satellites, high performance filters and multiplexers represent key microwave components of the payload. Utilization of HTS films in these devices is presented in this paper. The basic HTS resonator/filter structures (including HTSSE-I resonator/filter) suitable for these applications are described. The multiplexer designs and measured results are also described (including the HTSSE-II multiplexer).

❑ Return to main document.