Abstracts

Miniature Superconducting Filters

M.J. Lancaster, F. Huang, A. Porch, B. Avenhaus, J.-S. Hong and D. Hung. "Miniature Superconducting Filters." 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)): 1339-1346.

Because of the intrinsic low loss of high temperature superconductors at microwave frequencies it is possible to reduce the size of filters while still retaining excellent performance. In order to accomplish this reduction in size new filter geometry is required. Under this theme of miniaturization a number of new and novel types of microwave filter are discussed, this includes delay line filters, lumped element filters and filters based on slow wave structures. Each of the filters are constructed out of high temperature superconductors (HTS).

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