Abstracts

A novel split-resonator high power HTS planar filter

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A novel microstrip filter design employing split-resonators and inserted I/O line coupling structures is proposed for high power high-temperature-superconductive (HTS) thin film filters. The use of split-resonators together with the inserted I/O coupling helps to redistribute the current more evenly over the resonators. The inserted line coupling structure also eliminates the sharp corners and narrow gaps associated with conventional I/O coupling structures. A 3-pole HTS filter was designed and tested. Excellent measurement results were obtained which demonstrate the advantages of the proposed design.

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