Abstracts

Highly selective HTS band pass filter with multiple resonator cross-couplings

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A highly selective High Temperature Superconducting (HTS) band pass filter with multiple resonator cross-couplings is presented. High Quality (Q) factor HTS filter elements enable highly selective low loss filters to be manufactured. In order to increase the selectivity of a planar filter while maintaining a small footprint, multiple cross-couplings are added. The cross-couplings are added to provide either low side rejection enhancement, high side enhancement or enhancements to both sides of the filter depending on the specific application. This paper will discuss the design and development of a 10-Pole highly selective band pass filter with multiple cross-couplings.

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