Abstracts

Planar superconducting lumped element bandpass filter with spiral inductors

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Experimental results are reported for a novel 4-pole high temperature superconducting lumped element bandpass Chebyshev filter with central frequency 1.7 GHz and 1.2% fractional bandwidth. High efficiency of the substrate area usage is reached by the application of planar coils as inductance elements. Measurements and simulation results are compared and are found to be in satisfactory agreement.

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