Abstracts

High Temperature Superconducting 8.45-GHz Bandpass Filter for the Deep Space Network

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A high temperature superconducting stripline 8.45 GHz bandpass filter, designed for the Deep Space Network, is presented which has very low insertion loss, indicative of resonators with unloaded Qs greater than 10,000. The performance of this filter shows that practical, high Q multi-resonator devices can be constructed using lanthanum aluminate substrates in a stripline configuration.

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