

Abstracts

Shunt capacitor approximation for HTS microstrip circuit design

Shen Ye. "Shunt capacitor approximation for HTS microstrip circuit design." 2002 MTT-S International Microwave Symposium Digest 02.3 (2002 Vol. III [MWSYM]): 1979-1982 vol.3.

This paper presents a novel technique of using loop transmission lines to approximate shunt capacitors for microstrip type circuit design. The size of the surface area may be effectively reduced and greater layout flexibility can be achieved. This is particularly useful in HTS thin film microstrip circuit design because of its extreme low loss and limited substrate sizes. A 5-pole AMPS 1 MHz bandstop filter is shown as an example.

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