

Abstracts

Compact quasi-lumped element HTS microstrip filters

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This paper demonstrates the design of two quasi-elliptic and one linear phase filter. Different methods of cross coupling, which result in different advanced filtering characteristics, are investigated and verified experimentally. Each of these filters is designed to have a fractional bandwidth of 15 MHz and a centre frequency of 1.7775 GHz. All the filters are in basic quadruplex form and can be used for higher order filter design. These filters are good candidates for wireless and mobile communication systems.

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