Abstracts

Simulated and measured results from a Duroid-based planar MBG cavity resonator filter

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A planar Microwave Band Gap (MBG) cavity resonator filter that is completely compatible with current commercial printed circuit board (PCB) fabrication techniques has been designed, fabricated and tested. This filter provides a 1.33% bandwidth passband response at 10.67 GHz with a corresponding insertion loss of 2.17 dB. Design considerations and equations are presented which demonstrate that the resonant frequency and Q of the resonator can be adjusted as desired.

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