

Abstracts

A miniaturized bandpass filter with double surface electrodes

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A high performance planar filter using novel resonance modes by double surface electrodes is developed. The trial filter has 38% smaller size than the conventional CPW (coplanar waveguide) filter keeping the unloaded Q. This filter has a 400 MHz bandwidth at 2.42 GHz, the insertion loss is 2.58 dB and its size is $5.2/\text{spl times}/2.5/\text{spl times}/0.2 \text{ mm}^3/\sup 3$. It is applicable for ISM2.4 applications.

[Return to main document.](#)