

## Design of a Quasi-Planar Broadside End-Coupled Bandpass Filter

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This paper presents the design and implementation of a quasi-planar broadside end-coupled bandpass filter. It circumvents the problem of bandwidth limitation imposed on the conventional end-coupled filter realized by coplanar strips. To realize such a complicated filter in shape, an accurate tridimensional deembedding of the filter discontinuity problem based on the quasi-TEM variational spectral-domain approach (SDA) is developed. Then this approach leads to the design of a 30% bandwidth bandpass filter which agrees favorably with the measured performance.

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