

Abstracts

A novel compact coplanar filter

T. Paillot, P. Blondy, D. Cros and P.-Y. Guillon. "A novel compact coplanar filter." 2002 MTT-S International Microwave Symposium Digest 02.3 (2002 Vol. III [MWSYM]): 1793-1796 vol.3.

A 30 GHz coplanar two pole filter is presented and consists of two quarter wavelength resonators. It has an original excitation structure based on magnetic coupling. To validate this approach a 2 pole, 10 percent relative bandwidth filter has been fabricated on fused silica. Low loss and good agreement between simulation and measurements have been achieved.

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