

Abstracts

A novel uniplanar compact PBG structure for filter and mixer applications

Fei-Ran Yang, Yongxi Qian and T. Itoh. "A novel uniplanar compact PBG structure for filter and mixer applications." 1999 MTT-S International Microwave Symposium Digest 99.3 (1999 Vol. III [MWSYM]): 919-922 vol.3.

A novel lowpass filter with a uniplanar, compact photonic band-gap structure etched in the ground plane has been proposed and demonstrated. This new filter has a deep attenuation and spurious-free response. A drain mixer using this novel filter suppresses the LO leakage by over 10 dB compared to a reference mixer with a conventional filter.

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