Abstracts

Improvements in losses and size of frequency tunable coplanar filter structures using MMIC negative resistance chips for multistandard mobile communication systems

G. Tanne, E. Ruis, F. Mahe, S. Toutain, F. Biron, L. Billonnet, B. Jarry and P. Guillon. "Improvements in losses and size of frequency tunable coplanar filter structures using MMIC negative resistance chips for multistandard mobile communication systems." 2000 MTT-S International Microwave Symposium Digest 00.2 (2000 Vol. II [MWSYM]): 1165-1168.

A new band-pass filter design technique is presented that uses coplanar passive interdigitated filters assisted by an MMIC active component which performs a negative resistance with an associated imaginary part in order to compensate for the losses of the passive filter and to reduce significantly the length of the resonators. A tunable version of the filter is also presented.

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