Abstracts

Dividing and filtering function integration for the development of a band-pass filtering power amplifier

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Integration of amplifying and filtering functions, based on transversal structure principles, is one solution to develop miniaturized mobile communication devices. An architecture using power combination has been developed, combining the filter and the three branches power divider. The system is dual-band (0.9 GHz and 1.94 GHz). The filter is constituted by two looped Stepped Impedance Resonators (S.I.R.), symmetrically positioned on each side of the stopped feeding line. Power is equally divided thanks to coupling effects between output microstrip lines.

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