

Abstracts

A complete integrated TX/RX front-end combining 3D topologies and global synthesis

T. Le Nadan, C. Person and J.P. Coupez. "A complete integrated TX/RX front-end combining 3D topologies and global synthesis." 2001 MTT-S International Microwave Symposium Digest 01.2 (2001 Vol. II [MWSYM]): 957-960 vol.2.

We propose an original procedure for integrating a RX/TX front-end. A dual operating mode function (mixer/modulator), based upon a CPW magic-Te, is developed. A global synthesis technique is then considered in combination with 3D integration techniques for achieving bandwidth requirements and design flexibility. The complete RX/TX module is presented.

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