

Abstracts

An Analytic Design Approach for 2-18 GHz Planar Mixer Circuits

R.B. Culbertson and A.M. Pavio. "An Analytic Design Approach for 2-18 GHz Planar Mixer Circuits." 1982 MTT-S International Microwave Symposium Digest 82.1 (1982 [MWSYM]): 425-427.

A design procedure for planar broadband mixers is proposed which employs filter synthesis for exact balun design and nodal analysis to check for deleterious port interactions. The method has been successfully used to obtain working mixers in one thin film fabrication cycle on alumina and fused quartz substrates. A representative design is presented with experimental data.

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