

Abstracts

A New Coplanar Waveguide/Slotline Double-Balanced Mixer

D. Cahana. "A New Coplanar Waveguide/Slotline Double-Balanced Mixer." 1989 MTT-S International Microwave Symposium Digest 89.3 (1989 Vol. III [MWSYM]): 967-968.

A new double-balanced MIC mixer design is presented. Through the use of a diode crossover quad and coplanar waveguide/slotline baluns, the need for via holes and back metalization has been eliminated. A sample mixer with 6-18 GHz RF and 1GHz IF demonstrates a 5.0 to 8.5 dB conversion loss.

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