

Abstracts

An 18-40 GHz monolithic ring mixer

S.A. Maas, F.M. Yamada, A.K. Oki, N. Matovello and C. Hochuli. "An 18-40 GHz monolithic ring mixer." 1998 Radio Frequency Integrated Circuits (RFIC) Symposium 98. (1998 [RFIC]): 29-32.

This paper describes a doubly balanced monolithic ring mixer using a unique planar balun consisting of a Marchand section followed by a coupled-line structure. The latter provides additional even-mode rejection and a convenient point for IF extraction. The mixer achieves low conversion loss and high isolation over an 18-40 GHz RF/LO bandwidth and a dc-10 GHz IF bandwidth.

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