

Abstracts

The influence of ground-plane width on the ohmic losses of coplanar waveguides with finite lateral ground planes

G. Ghione and M. Goano. "The influence of ground-plane width on the ohmic losses of coplanar waveguides with finite lateral ground planes." 1997 Transactions on Microwave Theory and Techniques 45.9 (Sep. 1997 [T-MTT]): 1640-1642.

In this paper, analytical computer-aided design (CAD)-oriented conformal-mapping approximations are presented for the high-frequency attenuation of symmetric and asymmetric coplanar waveguides (ACPWs) with finite-extent lateral ground planes. A discussion is presented on the effect of ground-plane width on the losses, and design criteria are derived.

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