

Abstracts

Internal impedance of conductors of rectangular cross section (Comments)

W. Heinrich. "Internal impedance of conductors of rectangular cross section (Comments)." 2001 Transactions on Microwave Theory and Techniques 49.3 (Mar. 2001 [T-MTT]): 580-581.

For rectangular conductors, as found in planar transmission lines, resistance and inductive reactance deviate by some 10%, in contrast to common approximations assuming equality of both quantities. This paper discusses this effect and presents quantitative data for the practical case of a monolithic-microwave integrated-circuit coplanar waveguide.

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