

Abstracts

W-Band Low-Insertion-Loss E-Plane Filter (Short Papers)

R. Vahldieck, J. Bornemann, F. Arndt and D. Grauerholz. "W-Band Low-Insertion-Loss E-Plane Filter (Short Papers)." 1984 Transactions on Microwave Theory and Techniques 32.1 (Jan. 1984 [T-MTT]): 133-135.

Computer-optimized design data for a four-resonator metallic E-plane filter are given with a midband frequency of about 94 GHz. The method of field expansion into suitable eigenmodes used considers the effects of finite insert thickness and higher order mode interaction. The measured minimum passband insertion loss of a metal filter prototype is 1.5 dB.

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