

Abstracts

A 200 GHz Tripler Using a Single Barrier Varactor

D. Choudhury, M.A. Frerking and P.D. Batelaan. "A 200 GHz Tripler Using a Single Barrier Varactor." 1993 Transactions on Microwave Theory and Techniques 41.4 (Apr. 1993 [T-MTT]): 595-599.

In this paper, we present results for a tripler to 200 GHz using a single barrier varactor (SBV). The performance of the tripler, over an output frequency range from 186 to 207 GHz, has been measured in a crossed waveguide mount. The theoretical performance of the device and the tripler mount have been calculated using large signal analysis. An overall efficiency of 2% was achieved with efficiency at the device of above 5%. A comparison of theoretical and measured results and a discussion of various losses in the mount and the varactor are presented.

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