

Abstracts

An Efficient 200--290-GHz Frequency Tripler Incorporating a Novel Stripline Structure

J.W. Archer. "An Efficient 200--290-GHz Frequency Tripler Incorporating a Novel Stripline Structure." 1984 *Transactions on Microwave Theory and Techniques* 32.4 (Apr. 1984 [T-MTT]): 416-420.

This paper describes a broadly tuneable frequency tripler which can provide more than 2-mW output power at any frequency between 200 and 290 GHz. It is derived from an earlier narrow-band prototype design, with the major improvements being the use of a new low-pass filter design implemented using a novel suspended substrate stripline structure, an optimized waveguide transformer, and a lower loss contacting output backshort.

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