

Abstracts

Integrated Fin-Line Components and Subsystems at 60 and 94 GHz

W. Menzel and H. Callsen. "Integrated Fin-Line Components and Subsystems at 60 and 94 GHz." 1983 Transactions on Microwave Theory and Techniques 31.2 (Feb. 1983 [T-MTT] (Special Issue on Millimeter-Waves)): 142-146.

This paper describes fin-line receiver components for the frequency ranges around 60 and 94 GHz. In detail, the design and performance of balanced mixers, p-i-n-diode attenuators, and p-i-n-diode double throw switches will be presented. Next, the integration of such components (partly together with fin-line Gunn oscillators) will be demonstrated, showing a number of advantages concerning size, weight, losses, cost, and ruggedness.

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