

Abstracts

A Study of W-Band Subharmonically Pumped Mixer

W. Yun-yi and S. Yong-Hui. "A Study of W-Band Subharmonically Pumped Mixer." 1985 Transactions on Microwave Theory and Techniques 33.12 (Dec. 1985 [T-MTT] (1985 Symposium Issue)): 1340-1345.

A W-band subharmonically pumped mixer with packaged Schottky diodes has been developed. The design and performance of this mixer are described in detail. A new method for measuring the embedding network parameters of the subharmonically pumped mixer has been developed and the measurement has been carried out directly at $2f_{\text{sub LO}}$ and $2f_{\text{sub LO}} \pm f_{\text{sub if}}$. A special program for the analysis of the subharmonically pumped mixer has been developed, and computed results are given in comparison with measured results.

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