

Abstracts

A Study of W Band Subharmonically Pump Mixer

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A W band subharmonically pumped mixer with packaged Schottky diodes has been developed. The double sideband conversion loss of the mixer at $2f_{sub}$ $lo/ = 94$ GHz is 6.35dB. A new method for measuring the embedding network parameters of subharmonically pumped mixer was developed and the measurement has been carried out directly at $2f_{sub}$ $lo/$ and $2f_{sub}$ $lo/\pm f_{sub}$ $if/$. A special program for analysis of subharmonically pumped mixer has been developed and computed results are given in are given in comparison with measured results.

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