

Abstracts

A Study of W Band Subharmonically Pump Mixer

W. Yun-yi and S. Yon-hui. "A Study of W Band Subharmonically Pump Mixer." 1985 MTT-S International Microwave Symposium Digest 85.1 (1985 [MWSYM]): 223-226.

A W band subharmonically pumped mixer with packaged Schottky diodes has been developed. The double sideband conversion loss of the mixer at $2f_{\text{sub lo}} = 94\text{GHz}$ 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 $2f_{\text{sub lo}}$ and $2f_{\text{sub lo}} \pm f_{\text{sub if}}$. A special program for analysis of subharmonically pumped mixer has been developed and computed results are given in comparison with measured results.

 [Return to main document.](#)