

# Abstracts

## A W-Band Monolithic Balanced Mixer (1985 [MWSYM])

---

*L.T. Yuan and P.G. Asher. "A W-Band Monolithic Balanced Mixer (1985 [MWSYM])." 1985 MTT-S International Microwave Symposium Digest 85.1 (1985 [MWSYM]): 113-115.*

A fully monolithic balanced mixer fabricated on a GaAs substrate for operation at W-Band (75 to 110 GHz) is described. The overall size of the mixer chip is 0.075"x 0.075"x0.004". A minimum conversion loss of 4.6 dB has been measured at 91.1 GHz for narrow band operation. For broadband operation, a conversion loss of less than 8 dB has been achieved over an RF range of 73.6 to 83.6 GHz with a corresponding IF range of 8 to 18 GHz.

 [Return to main document.](#)