

Abstracts

Monolithic Millimeter Wave CPW Circuits

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Three monolithic circuits were designed and fabricated on GaAs substrates using CPW transmission lines. These circuits consist of two amplifiers and a frequency doubler, and demonstrate the application of CPW in the Ka band. The active device used in these circuits is a $0.25\mu\text{m}$ gate AlGaAs HEMT defined by E-beam lithography. Transmission line and substrate dimensions are chosen to avoid interaction with extraneous modes.

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