

94 and 150 GHz coplanar waveguide MMIC amplifiers realized using InP technology

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We report the design, fabrication and measurement of a three stage W-band amplifier with up to 22 dB gain at 94 GHz and a single stage D-band amplifier with 5 dB gain at 150 GHz. Circuits were designed and fabricated in coplanar waveguide technology using a 0.121 μm T-gate lattice matched InP HEMT technology.

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