

Abstracts

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

D.L. Edgar, H. McLelland, S. Ferguson, N.I. Cameron, M. Holland, I.G. Thayne, M.R.S. Taylor, C.R. Stanley and S.P. Beaumont. "94 and 150 GHz coplanar waveguide MMIC amplifiers realized using InP technology." 1999 MTT-S International Microwave Symposium Digest 99.1 (1999 Vol. I [MWSYM]): 247-250 vol. 1.

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 μ m T-gate lattice matched InP HEMT technology.

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