

## RF performance of a 77 GHz monolithic CPW amplifier with flip-chip interconnections

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This paper describes the RF performance of a 77 GHz coplanar waveguide (CPW) monolithic three-stage amplifier connected to an alumina substrate using flip-chip technology. Key issues discussed here cover the substrate, MMIC and bonding structures to realize a good amplifier operation at this frequency. The flip-chip mounted GaAs monolithic amplifier exhibited a gain higher than 15 dB at around 77 GHz.

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