

Abstracts

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

K. Maruhashi, M. Ito, H. Kusamitsu, Y. Morishita and K. Ohata. "RF performance of a 77 GHz monolithic CPW amplifier with flip-chip interconnections." 1998 MTT-S International Microwave Symposium Digest 98.2 (1998 Vol. II [MWSYM]): 1095-1098.

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.

[Return to main document.](#)