

Abstracts

Integrated Ka-Band Front End with Monolithic Mixer

P.J. Meier, J.A. Calviello, A.J. Cappello, L.D. Cohen, R.J. Pomian and P.R. Bie. "Integrated Ka-Band Front End with Monolithic Mixer." 1985 MTT-S International Microwave Symposium Digest 85.1 (1985 [MWSYM]): 151-154.

A Ka-band front end has been developed that integrates a low-loss wide-band monolithic mixer, a two-stage IF amplifier on semi-insulating GaAs, and a lumped-element Gunn LO. Small size (0.5 in³) and good performance (11-dB gain with a DSB noise figure of 7 dB) have been obtained by applying synergistic IC construction techniques.

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