

Abstracts

Ka-Band Front End with Monolithic, Hybrid, and Lumped-Element IC's

P.J. Meier, J.A. Calviello, A.J. Cappello, R.J. Pomian, L.D. Cohen and P.R. Bie. "Ka-Band Front End with Monolithic, Hybrid, and Lumped-Element IC's." 1986 Transactions on Microwave Theory and Techniques 34.4 (Apr. 1986 [T-MTT]): 412-419.

A Ku-band front end has been developed which integrates a low-loss wide-band monolithic mixer, a two-stage hybrid IF amplifier, and a lumped-element Gunn local oscillator (LO). Small size (0.5 cubic in), high performance, and potentially low production cost have been demonstrated through the application of highly compatible IC construction techniques.

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