Abstracts

C-Band GaAs MMIC Limiting Power Amplifier with Small Insertion Phase Variation (1991 Vol. I [MWSYM])

J. Ozaki, K. Arai, M. Miyauchi, S. Watanabe and S. Kamihashi. "C-Band GaAs MMIC Limiting Power Amplifier with Small Insertion Phase Variation (1991 Vol. I [MWSYM])." 1991 MTT-S International Microwave Symposium Digest 91.1 (1991 Vol. I [MWSYM]): 331-334.

A C-band GaAs MMIC limiting power amplifier has been developed by cascading three kinds of MMIC chips (a limiting amplifier, a gain-control amplifier and a power amplifier) in a single package. It provides an output power of 33.2 ± 0.2 dBm with an insertion phase variation of less than 2.3 degrees over an input power range of from 13.5 dBm to 18.5 dBm. The output power can be controlled between 17.8 dBm and 33.2 dBm with an insertion phase variation less than 22.5 degrees.

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