Abstracts

20-30 GHz broadband MMIC power amplifiers with compact flat gain PHEMT cells

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20-30 GHz band MMICs have been successfully developed using two types of novel compact size flat gain PHEMT cells that have flat maximum available gain and sufficient stabilities over a wide frequency range of 20-30 GHz. One type is a feedback type. The other has an equalizer circuit at the gate of a PHEMT. The MMIC delivers gains of over 18 dB and P1dB of over 22 dBm. These results show this method is very effective in designing broadband MMICs.

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