

Abstracts

High Efficiency L-Band Variable Output Power Amplifiers for Use in Communication Systems

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A pair of high efficiency low distortion L-band power amplifiers operating over variable drain voltages with a fixed gate voltage were developed. High efficiency and low distortion are maintained for drain voltages over the range of 2-8 Volts, while providing 12dB of output power variation. The two amplifiers are single stage reactively matched hybrids that utilize discrete 0.5 μ m PHEMT devices consisting of 4.8mm and 17.6mm peripheries. These amplifiers are ideally suited for L-band transmitters in Communication Systems.

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