

Abstracts

A High Gain Dual-Fed Single Stage Distributed Amplifier

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This paper describes a novel microwave single stage distributed amplifier configuration based on the dual-fed distributed amplification technique. In this configuration the input and output line idle ports are reactively terminated. This results in a significant improvement in gain and power added efficiency over conventional and dual-fed distributed amplifier. The amplifier band of operation can be tuned by varying the terminating reactances. This novel configuration can also be used as a tuneable oscillator over a decade by direct feedback.

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