Abstracts

Optimal design and experimental characterization of high-gain GaInP/GaAs HBT distributed amplifiers

S. Mohammadi, J.W. Park, D. Pavlidis, J.L. Guyaux and J.C. Garcia. "Optimal design and experimental characterization of high-gain GaInP/GaAs HBT distributed amplifiers." 1999 MTT-S International Microwave Symposium Digest 99.2 (1999 Vol. II [MWSYM]): 685-688 vol.2.

The design methodology of high-gain GaInP/GaAs HBT distributed amplifiers is presented. Distributed amplifiers with different active cells and number of stages have been compared for high-gain (>12 dB) and high-bandwidth (>25 GHz) performance. Based on the results, a 3-stage distributed amplifier with a S/sub 21/ gain of 12.7 dB over 27.5 GHz bandwidth was successfully fabricated and tested.

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