

Abstracts

Monolithic 9 to 70 GHz Distributed Amplifier

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Multi-octave monolithic GaAs Pseudomorphic HEMT (PHEMT) amplifiers have been developed to operate from 9 to 70 GHz. These amplifiers make use of state of the art sub .2 μm PHEMT devices. Typical performance for a distributed amplifier using a 75 μm device is 4 dB of gain with 0.5dB peak-to-peak ripple and a maximum noise figure of 7 dB across the 9 to 70 GHz band.

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