

# Abstracts

## Monolithic 9 to 70 GHz Distributed Amplifier

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*N. Camilleri, P. Chye, A. Lee and P. Gregory. "Monolithic 9 to 70 GHz Distributed Amplifier." 1990 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 90.1 (1990 [MCS]): 27-30.*

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  $\mu$ m PHEMT devices. Typical performance for a distributed amplifier using a 75  $\mu$ m 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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