

# Abstracts

## Wideband 3W Amplifier Employing Cluster Matching

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High power, broadband monolithic amplifiers have inherent performance limitations and require specialized fabrication and design techniques to ensure optimal performance and high yield. The "cell cluster matching" design approach is presented as a solution to this power-bandwidth problem along with a detailed discussion of the high yield fabrication techniques used to implement it. In particular, a 3 W 8-12 GHz amplifier, employing the cluster matching technique, is discussed and some initial test results are presented.

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