# Abstracts

## An eight-device extended-resonance power-combining amplifier

*A.L. Martin, A. Mortazawi and B.C. Deloach, Jr.. "An eight-device extended-resonance power-combining amplifier." 1998 Transactions on Microwave Theory and Techniques 46.6 (Jun. 1998 [T-MTT]): 844-850.*

An extended resonance technique for designing power amplifiers is investigated. This technique provides a planar power-combining structure whose primary distinction from conventional structures is that it does not require quarter-wave or multiple quarter-wave spacing between devices. A theoretical analysis of extended-resonance combiners is presented, followed by experimental data from an eight-device power amplifier. This approach is adaptable to monolithic circuit-fabrication techniques and should be useful for millimeter-wave applications.

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