

# Abstracts

## High combining-efficiency X-band spatial power-combined array using a multilayered packaging architecture

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*S.M. Duffy and M.A. Gouker. "High combining-efficiency X-band spatial power-combined array using a multilayered packaging architecture." 2000 Transactions on Microwave Theory and Techniques 48.10 (Oct. 2000 [T-MTT]): 1769-1771.*

The design of a high combining-efficiency spatial power-combined array is described in this paper. A multilayered stacked stripline architecture enables a compact stable design. An array incorporating antenna active impedance and proper amplifier matching is measured with a combining efficiency of 87%, radiating 6.8 W of an available 7.8 W into the ideal uniformly illuminated array directivity at 10.1 GHz.

 [Return to main document.](#)