

# Abstracts

## 20 watt spatial power combiner in waveguide

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*Nai-Shuo Cheng, A. Alexanian, M.G. Case and R.A. York. "20 watt spatial power combiner in waveguide." 1998 MTT-S International Microwave Symposium Digest 98.3 (1998 Vol. III [MWSYM]): 1457-1460.*

In this paper, we present the continued effort in the development of broadband waveguide-based spatial combiners. A 20 W result at X-band is reported. The combiner was implemented by using eight commercial GaAs MMIC amplifiers in a rectangular waveguide environment. A new combiner design is proposed to alleviate, if not eliminate, various technical problems and further improve the power performance. Resulting simplification in analysis also enable us to better characterize the combining circuits. The preliminary result suggests promising outlook in performance improvement.

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