

Abstracts

Two-Dimensional MESFET-Based Spatial Power Combiners

A. Balasubramaniyan and A. Mortazawi. "Two-Dimensional MESFET-Based Spatial Power Combiners." 1993 *Microwave and Guided Wave Letters* 3.10 (Oct. 1993 [MGWL]): 366-368.

A new spatial power combining structure capable of integrating many three terminal devices into two dimension is described. The combiners designed and fabricated using this structure do not suffer from multimoding problems. Effective isotropic radiated powers of 5.54 W and 17.38 W at 10.03 GHz were obtained from an eight and a sixteen MESFET combiner, respectively. These combiners are suitable for monolithic circuit implementation.

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