

Abstracts

A slotted waveguide quasi-optical power amplifier

R. Bashirullah and A. Mortazawi. "A slotted waveguide quasi-optical power amplifier." 1999 MTT-S International Microwave Symposium Digest 99.2 (1999 Vol. II [MWSYM]): 671-674 vol.2.

A power amplifier array based on a slotted waveguide power divider is presented. The advantages of this structure are its low profile and ease of fabrication. Efficient heat sinking of power devices is achieved. An X-band version of the power amplifier using eight MESFETs was designed and fabricated. An output power of 14 W was obtained.

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