

Abstracts

A flip-chip high efficiency X-band HPA

P. Cameron, W. Pan, C. Hanz, R. Nicklaus, P. Chu, D. Wong and T. Cisco. "A flip-chip high efficiency X-band HPA." 1997 MTT-S International Microwave Symposium Digest 2. (1997 Vol. II [MWSYM]): 889-892.

We have developed a broad band, high efficiency, X-band MMIC HPA implemented with our flip-chip technology. The amplifier utilizes PHEMT devices to achieve better than 35% PAE (40% peak) with an associated five watts of output power. The flip-chip technology reduces cost while at the same time increases performance. To our knowledge, this is the first reported flip-chip HPA that uses PHEMT devices.

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