

Abstracts

50W Class Multi-Port Amplifier for Multi-Beam Satellite Communications

K. Yamamoto and M. Tanaka. "50W Class Multi-Port Amplifier for Multi-Beam Satellite Communications." 1989 MTT-S International Microwave Symposium Digest 89.3 (1989 Vol. III [MWSYM]): 1281-1284.

A Multi-port Amplifier (MPA), composed of an array of high power amplifiers (HPAs), a power divider and a power combiner, is suitable for on-board transponder in a multi-beam mobile satellite communications system. A 50W class experimental MPA composed of 8 HPAs has been developed based on a design method which takes account of the nonuniformity of HPA characteristics. It has exhibited excellent performance.

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