

Abstracts

A CPW fed microstrip patch quasi-optical amplifier array

S. Ortiz, T. Ivanov and A. Mortazawi. "A CPW fed microstrip patch quasi-optical amplifier array." 1998 MTT-S International Microwave Symposium Digest 98.3 (1998 Vol. III [MWSYM]): 1465-1468.

A CPW fed microstrip patch quasi-optical power combining amplifier array is introduced. The amplifier array uses CPW fed patches for both input and output antennas. This structure is not only compatible with MMIC implementations but can also provide a greater bandwidth for the patch antennas. A 4/spl times/4 amplifier array was designed and fabricated at X-band. Theoretical and experimental results are presented.

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