Abstracts

A CPW-fed microstrip patch quasi-optical amplifier array

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A quasi-optical power-combining amplifier array based on coplanar waveguide (CPW)-fed microstrip patch antennas is introduced in this paper. Both the transmit and receive antennas employ CPW-fed patches. This amplifier is not only compatible with monolithic-microwave integrated-circuit implementations, but can also provide a greater bandwidth than circuits based on conventional microstrip-fed patch antennas. A 4/spl times/4 amplifier array was designed and constructed at X-band. Results for the gain and power compression are also presented.

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